

... for Studios, OB Vans and Intercom Solutions



Release date: August 2017

All rights reserved. Permission to reprint or electronically reproduce any document or graphic in whole or in part for any reason is prohibited unless prior written consent is obtained from AVT Audio Video Technologies GmbH.

This catalogue has been put together with the utmost digilence. However, no guarantee for correctness can be given. AVT Audio Video Technologies GmbH cannot be held responsible for any misleading or incorrect information provided throughout this catalogue.

AVT Audio Video Technologies GmbH reserves the right to change specifications at any time without notice.



CONTENT

General	5
Features & Symbols	6
Overview	8
MAGIC TH1Go Telephone Hybrids	10
MAGIC TH2plus Telephone Hybrids	14
MAGIC TH6 Telephone Hybrids	18
MAGIC THipPro Telephone Hybrids	22
MAGIC THipPro ACconnect Upgrade	32

Telephone Hybrids or Talkshow Systems convert an incoming phone call into an Audio signal which is suitable for the studio environment.

There are typically three different line interfaces that are used: POTS (analogue telephone lines), ISDN or Ethernet interfaces using the Voice over IP technology. ISDN and VoIP are digital transmission procedures which do not cause any line echoes. However, POTS lines as well as POTS telephones in combination with ISDN or VoIP lines can cause line echoes resulting from the 2-wire technology or the conversation from 2- to 4-wire technology. These echoes are disturbing and must be eliminated by line echo cancellers. The AVT systems take care of this problem by having its own echo canceller for each caller line to achieve the best possible speech quality - even in caller conferences.

Whereas POTS and ISDN are already about to be switched off in some countries, VoIP is the standard nowadays and in the future. All AVT Systems support the <u>VoIP</u> operating mode, either in the standard delivery mode, or they can be extended <u>later on</u> by software upgrade so that the user does not have to reinvest in a new telephone hybrid when changing from e.g. POTS to VoIP. To use the AVT telephone hybrids in VoIP operating mode, for each caller line a SIP account is required. With these accounts the system can register at a SIP Server (which can be e.g. your IP PBX or also a SIP Server on the internet).

VoIP offers a big advantage compared to analogue telephone lines – the so-called <u>HD Voice</u> feature. HD Voice means 7-kHz speech quality (G.722 coding algorithm). Normal telephone quality only offers 3.1 kHz. With the AVT Telephone Hybrids you can also benefit from this feature. Nowadays, almost all standard IP telephones and also DECT telephones support HD Voice. Of course, an HD Voice connection can only be established if both sides support it.

That was some information on the connection to the outside world, now we have a look at the connection to your studio equipment. Typically, the telephone hybrid is connected to the mixing console in the studio via analogue or digital <u>Audio inputs/</u> <u>outputs</u>. The AVT systems provide analogue XLR and/or AES/EBU interfaces. Depending on the operating mode, each caller can be either switched to a separate Audio output or if required callers can also be switched in <u>conference</u>. In conference mode, the callers are available as mixed signal at the selected Audio output. The Mix Minus signal is generated automatically for each caller in the telephone hybrid.

The latest addition to the optional features for the MAGIC THipPro telephone hybrid is the <u>Dante/AES67</u> Interface card which enables the system to route 32 Audio channels over IP using the Dante protocol which is also compatible to the AES67 standard.

Many broadcasters would like to "screen" the callers before switching them to ON AIR. <u>Audio screening</u> means they want to have a conversation with the caller before the programme and enter information about the caller in a database. Interesting callers can be switched to ON AIR or called back later on. Disturbing callers can be put on a Blacklist. The next time this person calls, he hears only the busy tone and is automatically rejected by the system.

<u>Further features</u> are a function to accept calls automatically (Auto Answer) or a call forwarding function. For bigger studios, it might be necessary to install several workplaces which can control the telephone hybrid. In this way, it is possible to have e.g. one workplace for the producer who talks to the callers first and another workplace for the presenter/host who sees immediately the information which have been entered by the producer.

To sum it up, the AVT systems cover many different applications from a simple and easy-to-operate one-line system to sophisticated multi-line talkshow systems with several studios and Social Media and Audio Codec integration.

Features & Symbols

In this product catalogue we will use some symbols for the systems' features and their availability. Below you will find a description of all features.

Included A red symbol shows that the feature is available in the standard delivery version for the product described.



An orange symbol shows that

the feature is optionally available (associated with costs).

available A light grey symbol shows that the feature is not supported by the product described.



Digital signal processing

Digital Echo Canceller, AGC and Expander for each caller line.



POTS interface(s)

The system can be connected to POTS lines (analogue telephone lines).



ISDN interface(s)

The system can be connected to ISDN lines (BRI SO).



VoIP via LAN interface(s)

The system can be connected to VoIP lines (using a SIP Server).



VLANs (Virtual Local Area Networks) can be set in the system configuration to separate the Audio stream from the control data.



Quality of Service

Quality of Service parameters can be selected to give different priorities to the Audio and data streams in your network.



Calls can be established and received in HD Voice quality (G.722, 7 kHz).



Voice Disguise

The caller's voice can be disguised so that he or she is not recognised.



Currently supported are Google Chrome, Safari and Firefox



The system can be operated via a Windows PC Software using a tablet or PC connected via LAN to the telephone hybrid. The number of workplaces depends on the system and the activated licences.



In addition to a PC up to two external Keypad can be connected.



The system can be used with an MS AC-CESS database to save caller information (caller screening). All available info will be displayed at an incoming call if the number is transmitted.



The system can be used with an MS SQL database to save caller information (caller screening). All available info will be displayed at an incoming call if the number is transmitted.



Callers can be blocked by putting their telephone number on a blacklist. A blocked caller simply hears the busy tone when he calls.



Pretalk Streaming

With Pretalk Streaming it is possible to use Pretalk via LAN. The Audio signals are transmitted between the telephone hybrid and the control PC via LAN. To talk to the caller the sound card of the PC or a USB handset/ headset can be used. The major advantage is that no Audio cabling is required. A further benefit of Pretalk Streaming is the integrated Recording function which allows the user to record the caller's and presenter's signal in Pretalk as WAV file.



Answering machine

With the Answering machine you can record a message for callers which are automatically accepted and dropped after this message has been displayed. This function can be used e.g. for prize draws/game shows when all prizes have been assigned and you still have incoming calls which need to be answered.



Night Service

When the Night Service is enabled, incoming calls are automatically accepted and forwarded to a pre-defined telephone number which can be e.g. an answering machine.



Send DTMF

DTMF tones can be transmitted which is e.g. useful for entering a PIN to listen to messages on a mailbox or to join telephone conferences.



Analyse DTMF

DTMF tones can be analysed for e.g. game shows



With the Social Media Upgrade, it is possible to display and use your Twitter or Facebook (Q4/2016) account in the PC Control Software of the Telephone Hybrid.



The Dante interface board allows the use of 32 Audio channels over IP. Dante is e.g. supported by DHD mixing consoles and routers.

Ember+

The Ember+ protocol allows the control of a LAWO or DHD mixing console or any other Ember+ compatible system.



The DHD SetLogic commands can be used to communicate with DHD mixing consoles or routers, e.g. for control or signalling purposes.



ACconnect

With the ACconnect feature it is possible to integrate the control of the MAGIC ACip3 Audio Codec into the telephone hybrid's user interface. This means, telephone hybrid and audio codec can be controlled via one PC Software. Of course, one or more MAGIC ACip3 Audio Codecs are required for this functionality.



Programmable TTL interfaces and Relay contacts are available.



The hybrid can be connected via an external/ integrated wide area power supply.

FotoveFOIS channels1-226-ISDN channels22Valle channels1122166VAINyasyasyasyasyasyasyasyasDanle inferfacenonononononononoHD Valce (G.722, 7kHz)2x onolog applional input/output2x onolog input/output2x onolog of input/output2x onolog of input/output		MAGIC TH1potsGo	MAGIC TH1ipGo	MAGIC TH2plus	MAGIC TH2plus RM	MAGIC TH6 POTS	MAGIC TH6 VoIP HD
Noil Channels22Voil Channels112266VLANYesYesYesYesYesYesDanie InferdacenononononononoHD Valce (G.722, 7KH)Galloncalincludedfor Voil? K.SDNfor Voil?for Voil? <th>Feature</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Feature						
Voir channels1 [politional]12 (politional)2 (politional)6 (politional)VLANyesyesyesyesyesyesyesyesyesDante InfercenonononononononoHD Voice (G.722, 7kHz)grisyesyesyesyesyesyesyesyesVoice DisguiseyesyesyesyesyesyesyesyesyesyesAudio Interfaces2 x analog input/output2 x analog input/output icon be2 x analog digital input/output icon be2 x analog input/output icon be2 x analog digital input/output icon be2 x analog input/output icon be2 x analog digital 	POTS channels	1	-	2	2	6	-
Vair channels(optional) <th>ISDN channels</th> <th>-</th> <th>-</th> <th>2</th> <th>2</th> <th>-</th> <th>-</th>	ISDN channels	-	-	2	2	-	-
Dante interfacenononononoHD voice (G.722,7kH)optional for VoiPincludedoptional for VoiP & ISDNoptional for VoiP & ISDNoptional for VoiP & ISDNoptional for VoiP & ISDNoptional for VoiPoptional for VoiPincludedValce DisguiseyesyesyesyesyesyesyesyesAudio interfaces2.x analog imput/output2.x analog input/output2.x	VoIP channels	1 (optional)	1				6
HD voice (G. 722, 7kHz)optional for voirincludedincludedincludedoptional for voir A, ISDNoptional for voir A, ISDNoptional 	VLAN	yes	yes	yes	yes	yes	yes
No voice (x, x2, xk1)(for voir)Included(for voir & LSDNfor voir & LSDNfor voirfor voirVoice DisguiseyesyesyesyesyesyesyesyesAudio interfaces2 × analog input/output2 × analog input/output	Dante interface	no	no	no	no	no	no
Audio interfaces2 x analog input/output2 x analog input/output2 x analog algital input/output2 x analog algital to algital input/output2 x analog algital to algital input/output2 x analog algital to algital2 x analog mut/output2 x analog algital to algital2 x analog algital to algital2 x analog algital2 x analog mut/output2 x analog algital2 x analog mut/output2 x analog algital2 x analog mut/output2 x analog mut/outputDane Interface1112 (only in POIS mode)2 (only in POIS mode)0000Handset/Headset1112 (only in POIS mode)00000Keb browser controlyesyesyesnono00000Keb browser controlyes <td< th=""><th>HD Voice (G.722, 7kHz)</th><th></th><th>included</th><th></th><th></th><th></th><th>included</th></td<>	HD Voice (G.722, 7kHz)		included				included
Audio interfaces2 x analog input/output2 x analog input/outputdigital input/outputdigital input/outputdigital input/outputdigital input/outputinput/outputinput/output input/outputinput/output input/outputinput/output input/outputinput/output input/outputinput/output input/outputinput/output input/outputinput/output input/outputinput/output input/outputinput/output input/outputinput/output input/outputinput/output input/outputData index index index	Voice Disguise	yes	yes	yes	yes	yes	yes
PHONE interface112 (only in POIS mode)2 (only in POIS mode)Handsel/Headsel interface2222Front panel controlyesyesyesyesyesnonoWeb browser controlyesyesyesnonononoSoftware controlyesyesyesnonononoSoftware controlnononoyes (max. 8)yes (max. 2)yes (max. 6)Kindows FC or tablet)nononoyes, max. 2xyes, max. 2xyes, max. 2xDatabase/ Control via external RepradnonoyesMS ACCESS/ MS SQL (opt.)MS ACC	Audio interfaces	U U		digital input/output (can be	digital input/output (can be	input/output 4 x digital input/output	input/output 4 x digital input/output
PHONE InterfaceIIPOTS modelPOTS modelIIHandset/Headset2222Front panel controlyesyesyesyesyesnonoWeb browser controlyesyesnononononoSoftware controlyesyesnononononoSoftware controlnononoworkplaces)workplacesworkplacesworkplaces)Control via externalnononoyes, max.2xyes, max.2xyes, max.2xyes, max.2xDatabase/no, onlyno, onlyno, onlyMS ACCESS/MS ACCESS/MS SQL (opt),MS SQL (opt),Blacklistnononoyes, max.2xyes, max.6xyes, max.6xyes, max.6xPretaik Streamingnononoyes, max.8xyes, max.6xyes, max.6xUpgradeexternalexternalon anoyes, max.8xyes, max.6xHoLD signalexternalexternalon anononoNight ServicenonononononoNight ServicenonononononoNight ServicenonononononoNight ServicenonononononoNight ServicenonononononoNight Servicenonono	Dante interface	no	no	no	no	no	no
Interface222222Front panel controlyesyesyesyesnononoWeb browser controlyesyesnononononoSoftware controlnononoyesyes (max. 8)yes (max. 8)yes (max. 6)yes (max. 6)yes (max. 6)Control via externalnononoyes, max. 2xyes, max. 2xyes, max. 2xyes, max. 2xyes, max. 2xDatabase/no, onlyno, onlyno, onlyMS ACCESS/MS ACCESS/MS ACCESS/MS ACCESS/MS ACCESS/Caller Screeningnononoyes, max. 3xyes, max. 3xyes, max. 6x(static or 2x, dynamic)(static or 2x, dynamic)(static or 2x, dynamic)(static or 6x, dynamic)(static or 6x, dynamic)NS ACCESS/HoLD signalexternalON AIR signalON AIR signalrecorded, externalrecorded, externalrecorded, externalrecorded, ox 4x RelaysyesPfol (programmable)nononoyesyesyesyesyesyesAnalyse DTMFnonononononononononoEmber+ protocolnonononononononononoHoLD signal ForteceunonononononononononoNight Servicenononoyes </th <th>PHONE interface</th> <th>1</th> <th>1</th> <th></th> <th>· · ·</th> <th>-</th> <th>-</th>	PHONE interface	1	1		· · ·	-	-
Web browser controlyesyesyesnonononoS(Marae control (Windows PC or tablet)nononoyes (max. 8 workplaces)yes (max. 6 workplaces)yes (max. 6 workplaces)yes (max. 6 workplaces)yes (max. 6 workplaces)Control via external (Keypad)nononoyes, max. 2xyes, max. 2	-	-	-	2	2	2	2
Software control (Windows PC or tablet)nonoyes (max. 6 workplaces)yes (max. 6 workplaces)yes (max. 6 	Front panel control	yes	yes	yes	yes	no	no
(Windows PC or tablet)NONONOworkplaces)workplaces)workplaces)workplaces)workplaces)Control via external Keypadnononoyes, max.2xyes, max.2xyes, max.2xyes, max.2xyes, max.2xDatabase/ Caller Screeningno, only phone bookno, only phone bookMS ACCESS/ MS SQL (opt.)MS ACCESS/ MS	Web browser control	yes	yes	no	no	no	no
KeypadNOYes, Max. 2xYes, Max.		no	no	<i>,</i> ,	· · ·	<i>,</i> ,	<i>,</i> ,
Caller Screeningphone bookphone bookMS SQL (opt.)MS SQL (o		no	no	yes, max. 2x	yes, max. 2x	yes, max. 2x	yes, max. 2x
Pretails Streaming Upgradenoves. max. Sr. (static or 2x dynamic)ves. max. Sr. (static or 6x dynamic)ves. Static or 6x dynamic)ves. max. Sr. (static or other sternal ON AIR signal)ves. max. Sr. (static or 0N AIR signal)ves. max. Sr. (static or other sternal)ves. max. Sr. (static or other sternal)ves. max. Sr. (static or Difter sternal)ves. max. Sr. (static or Difter sternal)							
Predict streaming Upgradenono(static or 2x dynamic)(static or 2x dynamic)(static or 6x dynamic)(static or	Blacklist	no	no	yes	yes	yes	yes
HOLD signalexternal ON AIR signalexternal ON	-	no	no	(static or	(static or	(static or	(static or
Night ServicenonoyesyesyesyesGPIO (programmable)4 x TIL4 x TIL4 x TIL4 x TIL6 x TIL6 x TIL6 x TIL2 x Relays2 x Relays2 x Relays2 x Relays2 x Relays2 x Relays4 x RelaysAnalyse DTMFnonooptionaloptionaloptionaloptionalSocial Media UpgradenonononononoEmber+ protocolnonoyesyesyesDHD SetLogic protocolnonoyesyesyesexternel L2Vexternel L2Vexternel L2Vintegratedintegrated	HOLD signal			external	external	external	external
GPIO (programmable) $4 \times TTL$ $4 \times TTL$ $4 \times TTL$ $4 \times TTL$ $6 \times TTL$ $6 \times TTL$ $2 \times Relays$ $4 \times Relays$ Analyse DTMFnonooptionaloptionaloptionalSocial Media UpgradenononononoEmber+ protocolnonoyesyesyesDHD SetLogic protocolnonoyesyesyes	Answering Machine	no	no	no	no	no	no
GPIO (programmable)2 x Relays2 x Relays2 x Relays2 x Relays4 x Relays4 x RelaysAnalyse DTMFnonooptionaloptionaloptionaloptionaloptionalSocial Media UpgradenonononononoEmber+ protocolnonoyesyesyesDHD SetLogic protocolnonoyesyesyesRever supplyovtornal 12/(ovtornal 12/(ovtornal 12/(integratedintegrated	Night Service	no	no	yes	yes	yes	yes
Analyse DTMFnonooptionaloptionaloptionalSocial Media UpgradenononononoEmber+ protocolnonoyesyesyesDHD SetLogic protocolnonoyesyesyesBower supplyoxtorned 12y(oxtorned 12y(integratedintegrated	GPIO (programmable)						
Social Media UpgradenononononoEmber+ protocolnonoyesyesyesyesDHD SetLogic protocolnonoyesyesyesyesDever supplyoxtornal 12y(oxtornal 12y(oxtornal 12y(integratedintegrated							,
Ember+ protocolnonoyesyesyesDHD SetLogic protocolnonoyesyesyesyesBower supplyexterned 12/(externed 12/(externed 12/(integratedintegrated	Analyse DTMF	no	no	optional	optional	optional	optional
DHD SetLogic protocol no no yes yes yes Power supply external 121/contended 121/conte	Social Media Upgrade	no	no	no	no	no	no
Power supply avtornal 121/ avtornal 121/ avtornal 121/ integrated integrated integrated	Ember+ protocol	no	no	yes	yes	yes	yes
	DHD SetLogic protocol	no	no	yes	yes	yes	·
wide died wide died wide died	Power supply	external 12V	external 12V	external 12V	integrated wide area	integrated wide area	integrated wide area

MAGIC THipPro 8 POTS	MAGIC THipPro 8 ISDN	MAGIC THipPro 8 VoIP	MAGIC THipPro 16 ISDN	MAGIC THipPro 16 VoIP
8	-	-	-	-
-	8	-	16	-
8 or 16 (optional)	8 or 16 (optional)	8	16 (optional)	16
yes	yes	yes	yes	yes
no	no	optional	no	optional
optional for VoIP	optional for VoIP & ISDN	optional	optional for VoIP & ISDN	optional
yes	yes	yes	yes	yes
2 x analog input/output 8 x digital input/output (4 x AES/EBU)				
no	no	optional	no	optional
-	-	-	-	-
2	2	2	2	2
no	no	no	no	no
no	no	no	no	no
yes (max. 20 workplaces)				
no	no	no	no	no
MS SQL				
yes	yes	yes	yes	yes
yes, max. 10x (static/ dynamic)				
4 x internal (dynamic or recorded), 10 x external ON AIR signal	4 x internal (dynamic or recorded), 10 x external ON AIR signal	4 x internal (dynamic or recorded), 10 x external ON AIR signal	4 x internal (dynamic or recorded), 10 x external ON AIR signal	4 x internal (dynamic or recorded), 10 x external ON AIR signal
yes	yes	yes	yes	yes
yes	yes	yes	yes	yes
8 x TTL				
8 x Relays				
optional	optional	optional	optional	optional
optional	optional	optional	optional	optional
yes	yes	yes	yes	yes
yes	yes	yes	yes	yes
integrated wide area				

ONE CHANNEL – POTS/VO

MAGIC TH1Go Telephone Hybrids



MAGIC TH1potsGo - POTS version

DSP	POTS	ISDN	VolP	VLAN	QoS	HD	VD	R			ACCESS	SQL
	Pretalk Streaming	00	C.	Send DTMF	Analyse DTMF	y f	DHD SetLogic		DHD SetLogic	ACconnect	GPIO	12 V external

MAGIC TH1ipGo – VoIP version

DSP	POTS	ISDN	VoIP	VLAN	QoS	HD	VD	R			ACCESS	SQL
	Pretalk Streaming	00	C	Send DTMF	Analyse DTMF	y f	@Dante ⁻		DHD SetLogic	ACconnect	GPIO	12 V external

- 2 x analogue Audio inputs/outputs
- Pretalk via POTS telephone or Audio line
- External HOLD signal or ON AIR as HOLD signal
- Control via POTS telephone or via
 web browser

- Front panel control
- Phone Book
- Dimensions: ½ x 19" x 1U with external 12V power supply

MAGIC TH1Go is available in two system versions – as <u>MAGIC</u> <u>TH1ipGo</u> which can be operated via the LAN interface as one channel VoIP hybrid or as <u>MAGIC TH1potsGo</u> which provides one POTS interface and can be operated with <u>analogue telephone lines</u>.

As a special highlight <u>MAGIC TH1ipGo</u> provides already in the standard delivery version outstanding <u>HD Voice (G.722)</u> quality in addition to the standard 3.1-kHz telephone quality. Conversations from and to telephones which are HD Voice compatible can be established in 7-kHz quality – which means with twice the Audio bandwidth and with a much higher speech intelligibility.

In addition to the front panel operation the system can be controlled especially comfortably via an <u>HTML5 compatible</u> <u>web browser</u>.

Alternatively or in parallel a <u>POTS telephone</u> can be connected to the MAGIC TH1Go Hybrids. With this telephone the <u>complete system operation</u> is possible. In contrast to other solutions the telephone is not disconnected by a relay from the hybrid after talking to the caller but allows full control in each line status.

An incoming call is directly accepted in Pretalk by picking up the phone. You can talk to the caller and by pressing a Quick Dial key on the telephone the call can be transferred to HOLD or ON AIR. When the ON AIR conversation has been finished, the connection can be dropped or the caller can be transferred back to the telephone by pressing the Pretalk button again. For easy handling a telephone book is available.



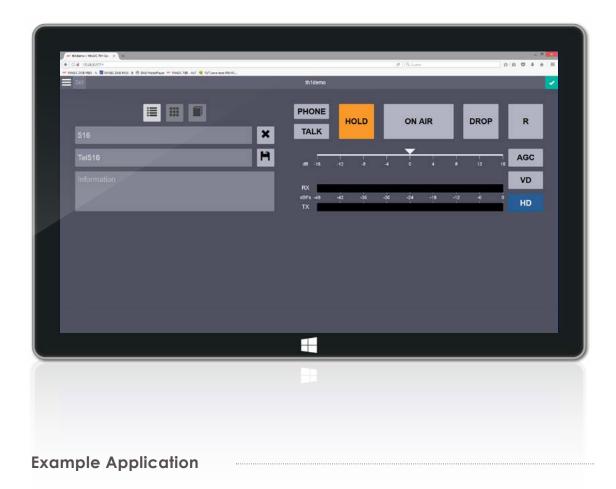
MAGIC TH1potsGo

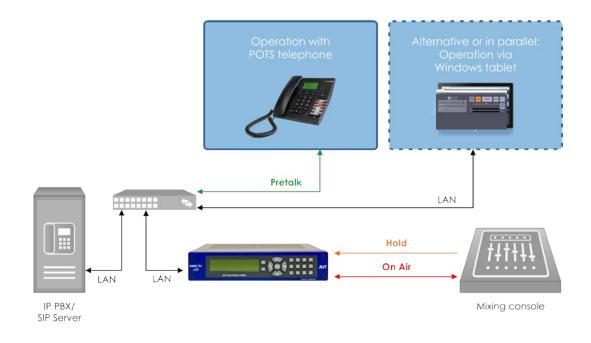


MAGIC TH1ipGo

ONE CHANNEL – POTS/VO

MAGIC TH1Go Web Browser Application





Options

MAGIC TH1Go can be ordered as standalone unit or as <u>bundle</u> together with the POTS telephone for control.

For the POTS version of MAGIC TH1Go, the <u>VoIP</u> Upgrade as well as the <u>HD Voice</u> Upgrade are available as software options. These options can also be ordered later on, e.g. when changing from POTS to VoIP lines.

To mount two systems next to each other in a 1U 19" rack, the optional <u>Dual Mounting Kit</u> can be used.



TWO CHANNELS – POTS/IS

MAGIC TH2plus Telephone Hybrids



MAGIC TH2plus

DSP	POTS	ISDN	VoIP	VLAN	QoS	HD	VD				ACCESS	SQL
R	Pretalk Streaming	00	C.	Send DTMF	Analyse DTMF	y f	@Dante ⁻	EMBER	DHD SetLogic	ACconnect	GPIO	12 V external

MAGIC TH2plus RM

DSP	POTS	ISDN	VoIP	VLAN	QoS	HD	VD		₽.		ACCESS	SQL
R	Pretalk Streaming	00	C	Send DTMF	Analyse DTMF	y f	∕@Dante ⁻	Ember	DHD SetLogic	ACconnect	GPIO	100–230 V integrated

- 2 x analogue or digital Audio inputs/outputs
- Pretalk via POTS Telephone or Audio line in POTS mode
- Pretalk via handset/headset or Audio line in ISDN & VoIP mode
- Optional Pretalk Streaming with recording function (different licences for static or dynamic assignment)

- External or recorded HOLD signal or ON AIR as HOLD signal
- Control via PC Software
- Max. 8 PC workplaces
- Max. 2 Keypad workplaces
- MS Access or optional MS SQL database for Screening

SDN/VOIP



<u>MAGIC TH2plus</u> is a <u>two channels talkshow system</u> and offers three operating modes in one system: With its <u>two POTS in-</u> <u>terfaces</u>, <u>one ISDN BRI</u> and <u>one LAN interface</u> it can be used in POTS or ISDN and optionally even in <u>VoIP mode</u>. With an external <u>GSM adapter</u>, it can be extended to a GSM hybrid.

Two hardware versions with identical functionalities are available. A <u>half 19</u>["] version with external 12V power supply or the <u>full 19</u>["] version MAGIC TH2plus RM which offers additionally coloured keys to make the front panel operation even more comfortable for the user.

MAGIC TH2plus provides various functions such as caller conferencing, Auto Answer, Voice Disguise, Night Service, call forwarding and the possibility to work with a <u>database</u> for call screening. In this way, caller information can be displayed immediately for an incoming call if the number is transmitted. Unwanted callers can be put on a <u>black list</u>.

The system can either be directly operated via the front panel or more comfortably via the Windows PC Software for which one licence is included in the delivery. Up to eight workplaces can be established with additional licences.

As alternative or in addition, up to <u>two external Keypads</u> can be connected to MAGIC TH2plus.

For an easy communication with DHD mixing consoles, MAGIC TH2plus allows the configuration of up to <u>32 DHD</u> <u>SetLogic commands</u>. Via the <u>Ember+ protocol 32 inputs and</u> <u>32 outputs can be programmed</u>, an easy communication between MAGIC TH2plus and e.g. DHD or Lawo mixing consoles is possible.



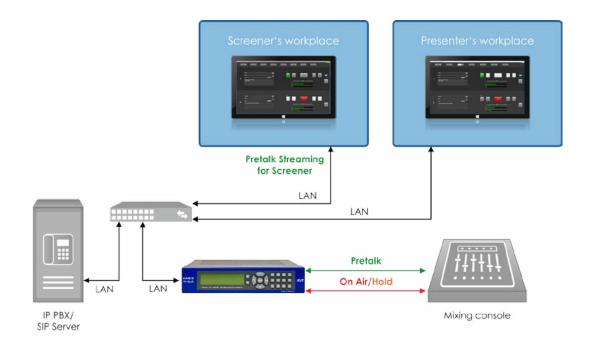
POWER 100 - 250 AC max. SOW 250 AC 1 POTS 2 1 PHONE 2 ISON LAN 1 MANDEET2 1 POTS 2 1 PHONE 2 ISON LAN 1 MANDEET2

MAGIC TH2plus RM

TWO CHANNELS – POTS/IS

MAGIC TH2plus PC Software

2	_	_			PC 1: N	MAGIC TH2phit - Radio-AVT	VolP			_	
	ME	10	PHONE BOOK	Heset DTMF	RECORD	Night Service	LOCK ALL	DROP ALL	SHOW LISTS		
	1	John Doe 518 Wiener of Prize: DM	song contest V	_,		233 741 741 X		ON AIR		R	HD
:	z	Jimmy Shoe 519 Is not hap	ıpy with current situati	я	C 	200 (FC)	RX	CH AIR	a na sa pa	R	ADC
_	_										
ami	ole	Ap	plicat	ion							



SDN/VOIP

Options

For MAGIC TH2plus various options are available to upgrade the system. First of the all, there are the <u>VoIP</u> and the <u>HD Voice</u> Upgrade which turn the system into an IP Telephone Hybrid with outstanding 7 kHz speech quality.

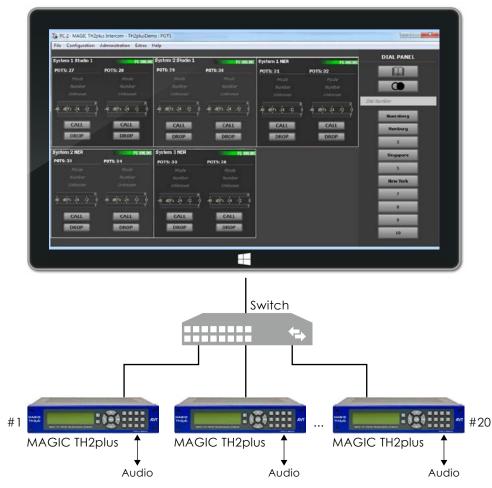
Furthermore, <u>additional PC workplaces</u> can be added by activating up to eight PC control licences. The first licence is already included in the standard delivery version. In this way, e.g. a Screener/Producer and a Presenter can operate the system at the same time.

MAGIC TH2plus also supports the so-called <u>Pretalk Streaming</u> function. With this Upgrade the LAN connection between the control PC and the hybrid can be used for Pretalk which means no Audio cabling is required. The conversation with the caller is done via the PC sound card or a USB Headset. Besides, Pretalk Streaming allows you to record the caller and presenter signals as WAV file. The Pretalk Streaming licences are available in two versions: either as a Pretalk Stream assigned to a fixed PC workplace (max. 3 licences) or as dynamic Pretalk Streaming, which can be used flexibly from all workplaces (max. 2 licences).

By default, the MAGIC TH2plus works with a MS Access database. This can optionally be replaced by a <u>MS SQL database</u>.

For game shows or sport events the <u>DTMF</u> <u>Analyser</u> can be a great asset. It provides three modes: standard, game show and event. Whereas in the standard mode only the numbers are displayed, in the game show mode it is also highlighted which caller was first to press the number on his phone. In the event mode, labels can be defined which are shown instead of the numbers.

Last but not least, if a user interface is required in which more than one MAGIC TH2plus is to be displayed, the <u>Intercom Upgrade</u> is the right choice. In this way, up to 20 systems can be shown on one screen.



MAGIC TH2plus Intercom PC Software

SIX CHANNELS – POTS/VC

MAGIC TH6 Telephone Hybrids



MAGIC TH6 – POTS version

DSP	POTS	ISDN	VolP	VLAN	QoS	HD	VD		₽.		ACCESS	SQL
	Pretalk Streaming	00	C.	Send DTMF	Analyse DTMF	y f	∕@Dante	EMBER	DHD SetLogic	ACconnect	GPIO	100–230 V integrated

MAGIC TH6 - VoIP version

DSP	POTS	ISDN	VoIP	VLAN	QoS	HD	VD	₽.		ACCESS	SQL
R	Pretalk Streaming	00	C	Send DTMF	Analyse DTMF	(Yf)	@Dante ⁻	DHD SetLogic	ACconnect	GPIO	100–230 V integrated

- 2 x analogue and 4 x digital Audio inputs/ outputs
- Pretalk via handset/headset or Audio line
- Optional Pretalk Streaming with recording function (different licences for static or dynamic assignment)
- External or recorded HOLD signal or ON AIR as HOLD signal

- Control via PC Software
- Max. 6 PC workplaces
- Max. 2 Keypad workplaces
- Two studios
- MS Access or optional MS SQL database for Screening

<u>MAGIC TH6</u> is a <u>talkshow system for six channels</u>. It is available as POTS version or as VoIP version with integrated HD Voice functionality for best speech quality.

With its two analogue and four digital Audio inputs and outputs MAGIC TH6 can be used in three operating modes: In the <u>One Fader mode</u>, all callers switched to ON AIR are mixed together and are available as one Audio signal at the selected output. The Mix Minus signal is generated automatically for each caller.

In the <u>Two Faders mode</u>, two ON AIR lines are available for each caller. In this way, you can decide if you want to switch callers on separate Audio outputs or if you want to switch them in conference on the same ON AIR line. The last operating mode is the Six Faders mode which means each caller is switched to a separate Audio output and the mixing can be done at the console if required.

A special highlight of the MAGIC TH6 is the possibility to split or share the caller lines between <u>two studios</u> in the One Fader and Two Faders mode. In each studio the dedicated caller lines are displayed and each studio has its own ON AIR and Pretalk lines.

Thanks to the integrated <u>MS Access</u> or the optional <u>MS SQL</u> <u>database</u> function, call screening is made very easy. With the 2-Studios-Screening function you can do call screening from a central PC for two studios. Functions such as e.g. caller preselection, blacklist, Last Calls list, Auto Answer or call forwarding are further benefits of the system. With the <u>Night</u> <u>Service</u>, calls can be accepted and forwarded to e.g. an answering machine automatically when the operator has left the studio.

For an easy communication with DHD mixing consoles, MAGIC TH6 allows the configuration of up to <u>32 DHD SetLogic</u> <u>commands</u>. Via the <u>Ember+ protocol 32 inputs and 32 out-</u> <u>puts can be programmed</u>, an easy communication between MAGIC TH6 and e.g. DHD or Lawo mixing consoles is possible.

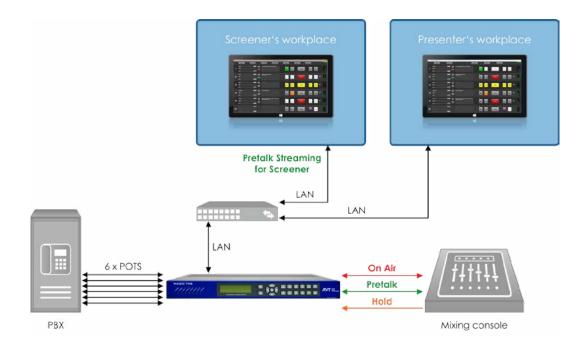


SIX CHANNELS – POTS/VC

MAGIC TH6 PC Software



Example Application



Options

Although MAGIC TH6 is already a powerful talkshow system in the standard delivery version, there are some optional upgrades which can be very useful for your application.

First of all, you can extend the system, which comes with one <u>PC control licence</u>, with up to five further control licences so that maximum six PC workplaces can access the system simultaneously. In this way, the system can also be shared or split between two studios. In both studios up to three workplaces can be installed, e.g. for a presenter, a screener and a technician.

As alternative or in addition to the PC workplaces, up to two external MAGIC TH6 <u>Keypads</u> can be connected to the MAGIC TH6 <u>via RS232</u>.

MAGIC TH6 also supports the <u>Pretalk Stream-</u> ing function. With this Upgrade the LAN connection between the control PC and the hybrid can be used for Pretalk which means no Audio cabling is required. The conversation with the caller is done via the PC sound card or a USB Headset. Besides, Pretalk Streaming allows you to record the caller and presenter signals as WAV file. Up to six Pretalk Streaming licences can be used, either as static or as dynamic Pretalk Streaming. With the Dynamic Pretalk Streaming, licences can be flexibly allocated and do not have to be assigned fixed to a PC workplace.

A very handy tool for game shows or sport events is the <u>DTMF Analyser</u> Upgrade. It provides three modes: standard, game show and event. In the standard mode simply the numbers are displayed which have been pressed on the callers' telephones. The game show mode additionally analyses who was first and highlights this caller. In the event mode, the DTMF Analyser can be used for e.g. sports live reporting. We imagine that several reporters are located in different stadiums and all are connected to the MAGIC TH6 via telephone. Only one of them is ON AIR, the other ones are in HOLD. If something interesting happens in a stadium, the reporter in HOLD status wants to signal this event to the Presenter in the studio. For this reason, DTMF event labels can be defined in the software configuration, e.g. the telephone key "0" is allocated to the word "goal" and "1" is allocated to "red card" etc. If one of the reporters in the stadiums now presses "0", the information "goal" appears in green letters on the Presenter's screen and he can immediately switch the reporter of the relevant game to ON AIR.

Also available for the MAGIC TH6 is the <u>Intercom Upgrade</u> which allows the control and monitoring of up to 20 systems within one user interface. Pretalk, Screening and Hold functionalities are not available in this software.

Last option to mention is the Extension for VoIP Upgrade for the POTS version of the MAGIC TH6. In this way, the POTS telephone hybrid can be extended to a <u>VoIP</u> Hybrid. With the <u>HD Voice</u> Upgrade, it will even offer excellent 7 kHz Audio quality.



EIGHT/SIXTEEN CHANNEL

MAGIC THipPro Telephone Hybrids



MAGIC THipPro 8 – POTS version*

DSP	POTS	ISDN	VolP	VLAN	QoS	HD	VD		Ţ.		ACCESS SQL
	Pretalk Streaming	مە	C.	Send DTMF	Analyse DTMF	y f	@Dante ⁻	EMBER	DHD SetLogic	ACconnect	GPIO 100-230 V integrated

MAGIC THipPro 8/16 - ISDN version*

DSP	POTS	ISDN	VoIP	VLAN	QoS	HD	VD	₽.		ACCESS	SQL
k	Pretalk Streaming	٥٥	C	Send DTMF	Analyse DTMF	y f	@Dante ⁻	DHD SetLogic	ACconnect	GPIO	100–230 V integrated

MAGIC THipPro 8/16 - VoIP version*

DSP	POTS	ISDN	VolP	VLAN	QoS	HD	VD	P I		ACCESS	SQL
R	Pretalk Streaming	مە	C	Send DTMF	Analyse DTMF	y f	@Dante ⁻	DHD SetLogic	ACconnect	GPIO	100–230 V integrated

- 2 x analogue and 8 x digital Audio inputs/ outputs
- Pretalk via handset/headset or Audio line
- Optional Pretalk Streaming with recording function (static or dynamic assignment)
- External, recorded or dynamic HOLD signal or ON AIR as HOLD signal

- Control via PC Software
- Max. 20 PC workplaces
- Optional up to six studios
- SQL database for Screening
- MAGIC THipPro ACconnect and Social Media Upgrade

^{*} Dante only in VoIP version

S – POTS/ISDN/VOIP

The <u>MAGIC THipPro</u> is the most flexible and functional talkshow system in our portfolio. The <u>8 lines</u> system is available for POTS, ISDN or VoIP lines, the <u>16 lines</u> system is available for ISDN or VoIP lines.

A special feature of the MAGIC THipPro is the so-called <u>Mixed</u> <u>Mode</u> in which the system can be operated with POTS or ISDN lines and simultaneously with VoIP lines. For the Mixed Mode, you simply need to upgrade a POTS or ISDN system with VoIP.

MAGIC THipPro provides <u>two analogue</u> and <u>eight digital Audio inputs and outputs</u> plus <u>two handset/headset interfaces</u>. The Audio interfaces can be assigned freely to the installed workplaces and studios. In total, up to <u>20 workplaces</u> can access the MAGIC THipPro <u>simultaneously</u>. With the <u>Admin</u> <u>Upgrade</u>, <u>six different studios</u> can be configured.

For MAGIC THipPro, two main software versions are available for configuration and control: <u>MAGIC THipPro LAN</u> and <u>MAGIC THipPro Screener</u>. In the standard delivery <u>no PC</u> <u>licence</u> is included so that the user can decide which one is more suitable for his purposes or chose a mixture of both. Additionally, for smaller studios or recording boothes which do not need the ON AIR functionality, the <u>News Desk Client</u> <u>Software</u> could be a cost-effective solution.

MAGIC THipPro can be connected to an <u>MS SQL database</u> <u>Server</u>. Different studios can use the same or individual databases for call screening. Of course, a blacklist function is also available. All features such as e.g. Auto Answer, call forwarding, Voice Disguise, Night Service and caller preselection are supported. As a special feature the answering machine functionality has been implemented – callers can be accepted automatically in Hold, hear a pre-recorded message and are dropped afterwards.

For an easy communication with DHD mixing consoles, MAGIC THipPro allows the configuration of up to <u>64 DHD</u> <u>SetLogic commands</u>. Via the <u>Ember+ protocol 64 inputs and</u> <u>64 outputs can be programmed</u>, an easy communication between MAGIC THipPro and e.g. DHD or Lawo mixing consoles is possible.



MAGIC THipPro VoIP with LAN3/4 and Dante module



MAGIC THipPro ISDN/POTS

EIGHT/SIXTEEN CHANNEL

MAGIC THipPro LAN Software

User interface in Production/Screener view



User interface in Presenter view

Menu:	Brop All	Lock All Voice Disgu	se Service	Phone Book	Reset BTMF A.t.	AVT
		The second se				SOCIAL MEDIA
John DOE New York	Jimmy SHOE Trankfort	Kathrin MOON Berlin	Anonymous	Brad PITT Los Angeles	Will Smith 325	≄summer
2 59 🔿 Last ON AIR: -	😬 1 55 🝼 Last ON AIR: 0 D	Last ON AIR:	Last ON AIR:	e 3 52 of Last ON AIR: -		P. Gayelli-V., 94,56201613.59 A Hunich, Germany Sommer in der Stadt
Very happy because of upcoming holidays	Shows his new collection next month	Unhappy with bad situation with her		I'm in love with Angle	Information about new movie	#münchen #munich #sommer #summer
		situation				-Ster- (0
	4 40 4 6 h					Krispy Kreme plus gusgusin princess mei #summer #donut #season
						Tola Sound 94.04.0014 1217
PRE	PRE TALK	PRE	PRE	PRE	PRE TALK	Listen RR+#SoundCloud #edm #SAmusic #trap #chill #stoners #summer
HDCD	HOLD	HOLD	HOLD	HOLD	HOLD	NVT GribH
0	1	0	0	0	0	 New Bugfix Release 2.201 for MAGIC THipPro is now available on our website.
_					_	Radio maga Auto 2414 17:56
0	0	0	O	0	0	 CAVTGNEH offers range of #VoIP, #AoIP products including 1-line Magic TH1
onor	DROP	CROP	DROP	DROP	LOCK	AVT AVT Gmb4) (0.56-2016 10.20
	-				-	 Interesting session (a) IBCShow 2016 https://t.co/kk7ITJBxkd
14:45	14:40	14:35	60:20	14:00	_	AVT GmbH 38.56 3616 10.20

S – POTS/ISDN/VOIP

MAGIC THipPro Screener Software

User interface in Screener view

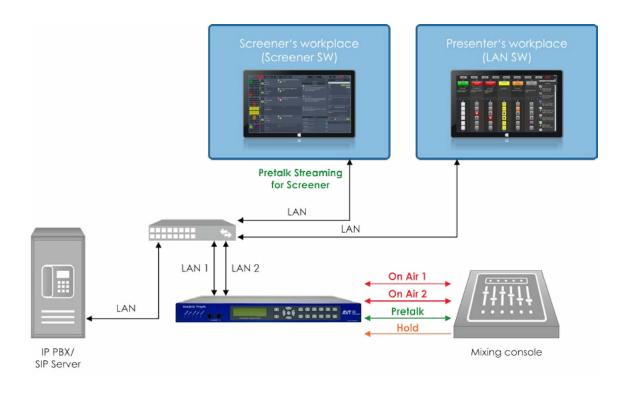
=	Stop 00:07	Select Preset	Talkshow	Line Functions	· · · · ·	Select List	Actions	AVT
MAK HOLD	or so DROP Doew	518 John DOE New York		Very happy because of upcoming holidays		Hsummer solal Media 🛛 🌏		Select Show Profile
50 500 TALK HOLD	072.50 072.50 54000 54000	519 Jimmy SHOE Frankfurt	1 O 55 O	Shows his new collection next month		t #münchen #munich #sammer Ie @ Rindermarkt SeKu	Pada Loct some Adv	tt 9 Denter ⊗
TAIK HOLD		523 Kathrin MOON Berlin	40	Unhappy with bad situation with her situation	Krispy Kreme plus g Monut Basasch Ha Monut Basasch Ha Mapan Mtps://t.co/	usgusin princess mei #summer Igaroverload #yummy Wosaka	45 1/1/1991 Commonweal Munich Steat Steat	
A 501 TARE HOLD ARL ARL		Posternamer ANONYMOUS Dr			Contraction of the second seco	rdCloud Hedm #SAmusic #trap I	191 B	04. Aug. 36: 14:08: (0 D) and Pokemon Go? Can you
ARE ARE	onor Shew	331 Brad PITT Los Angeles	i O 52 O	I'm in love with Angle	Anonymous			Carrent Incaton Tanna O O O O O O IIIII Janda Delete New
e box Dalk Hold Arts Arts	LOCK Show						HO 100 HO	
				H				

User interface in Presenter view

000 1 10000 1000 1000 <t< th=""><th></th></t<>	
Shows his new collection next month Shows his n	etweeted:
Image: State of the state	lmedia oliday
Krispy Kreen plus gusgusin Krispy Kreen plus gusgusin Buggarverback Buggarverback Los Angeles (331) Mult SMITH	ife @
5 Image: State and Pitt State and Pitt State and Pitt State and Pokemor	0.000000000
Will SMITH	🙂 🗿 Go! Can

EIGHT/SIXTEEN CHANNEL

Example Application: Basic



Our example application on this page shows a basic setup of the MAGIC THipPro Telephone Hybrid. There are two workplaces, one for the Presenter/Host and one for the Screener or Producer. The Screener/Producer works with the MAGIC THipPro Screener Software. He answers the calls first and can easily enter information about the callers via the data entry mask. With the Social Media Uparade, the radio station's Twitter account can be displayed in the user interface. All Twitter features are supported – the Screener can read through the latest tweets from the listeners or search for a certain hashtag. On top, he can mark interesting tweets which are to be displayed at the Presenter's workplace. With status functions such as e.g. HOLD READY he can show the Presenter which callers have been screened and are ready to be switched to On Air. The Screener uses Pretalk Streaming which means that the Audio signal between the telephone hybrid and his PC is transmitted via the LAN network. In this way, the Screener can be located far from the telephone hybrid without

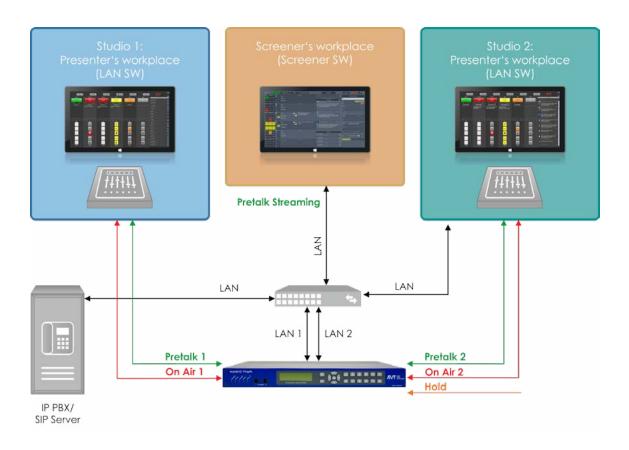
complicated Audio cabling. Besides, he can also record callers easily via a single button in his user interface.

The Presenter works with the MAGIC THipPro LAN Software showing the most important information of the callers. The Tweets which have been marked by the Screener are displayed on the right side of the user interface so that the Presenter can easily read them and decide which ones he wants to share with the listeners. The Presenter can also switch the callers to Pretalk to talk with them Off Air if required.

There are two On Air Audio lines which means the operators can switch a caller either to On Air 1 or On Air 2. If several callers are supposed to be in conference, they simply need to be switched to the same On Air line. The external Hold signal is inserted via a selected Audio input.

S – POTS/ISDN/VOIP

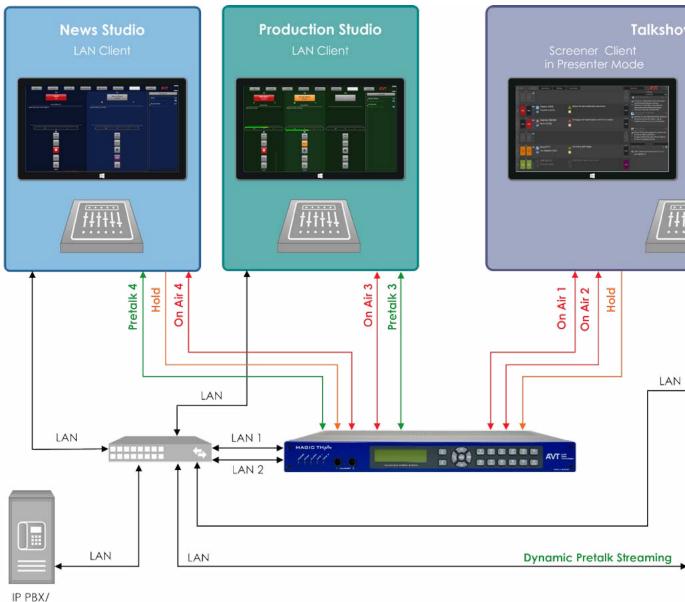
Example Application: Two Studios



In this example application we see <u>two</u> <u>studios which share the same caller lines</u>. Both Presenters work with the MAGIC THipPro LAN Software. Each studio has its own On Air Audio line which means that both Presenters can switch one or several callers to On Air at the same time. Each Presenter also has its own Pretalk line if he wants to talk to the caller Off Air. Usually, calls are accepted by the Screener in Pretalk. He enters the relevant information in the database via the MAGIC THipPro Screener Software. This information is also immediately displayed at the Presenters' workplaces. As long as the Screener is talking to a caller in Pretalk, the caller line is blocked for the two Presenters. Only when the caller has been switched to Hold, he can be put On Air in one of the studios.

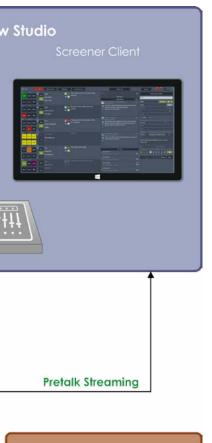
EIGHT/SIXTEEN CHANNEL

Example Application: Multi Studio



SIP Server

S – POTS/ISDN/VOIP





The drawing on this page shows how the MAGIC THipPro can be used for <u>up to six different studios</u>. The <u>Admin Upgrade</u> allows to split or share the available caller lines between the individual studios. In each studio only the assigned caller lines are displayed. In our example there are four different studios.

The <u>News Studio</u> has two caller lines and one workplace. This workplace uses the MAGIC THipPro LAN Software. The operator can accept the callers in Pretalk to have a conversation before switching them On Air. The Hold signal in inserted externally for this studio via one of the MAGIC THipPro's Audio inputs.

The <u>Production Studio</u> has three caller lines and also one workplace where the MAGIC THipPro LAN Software is installed. Whereas Pretalk and On Air are realised in the same way as for the News Studio (only via different Audio interfaces), the Hold signal is here simply the On Air signal.

The biggest studio is the Talkshow Studio with six caller lines and two workplaces, one for the Screener and one for the Presenter. The Screener uses Pretalk Streaming, he accepts the calls first and enters the relevant information via the data entry mask of the MAGIC THipPro Screener Software. With Pretalk Streaming, he can also record the callers easily via a single button in the user interface. The Presenter uses also the MAGIC THipPro Screener Software but in the so-called Presenter Mode. This mode shows only the caller lines and the most important information about the callers. Incoming calls can be hidden. Only after the Screener has screened the caller which means he has talked to the caller in Pretalk and switched the caller to Hold Ready status, the caller line is activated for the Presenter. In this case the Presenter needs no Pretalk line. The talkshow studio works with two On Air lines. In this way, callers can be switched on different faders or they can be put in conference by selecting the same On Air line.

The last studio is a <u>Recording Booth</u>. This Recording Booth works with the <u>News Desk Client Software</u> which looks like the MAGIC THipPro LAN Software but has no On Air functionality and does not allow the operator to do any system configuration. However, in the cost-efficient News Desk Client Software, Pretalk Streaming is already included and in this way, calls can be recorded easily as WAV file.

EIGHT/SIXTEEN CHANNEL

Options: User Interfaces

There are three software versions available for the control of the MAGIC THipPro Telephone Hybrid. For each workplace the most suitable application can be selected.

MAGIC THipPro LAN Software

The first one is the MAGIC THipPro LAN Software which is available as single-user licence. The software shows all caller lines in vertical order with status buttons (Pretalk, Hold, On Air, Drop and if configured call forwarding) and levelmeter. Each line has an Info button which displays the caller's name and number or location depending on which information is available. Below, the caller's sex, age and mood can be displayed. It is also shown when the caller has been On Air the last time. In the information field below, text entries can be made to enter some more details about the caller. This information is also saved in the database and displayed at the next call from that phone number. The Last Calls list can be shown or hidden according to the programme's requirements. Via the Phone Book button, calls can be established easily in the desired status. Manual dialling is also possible, of course. Quick Dial Key can be programmed for the most important contacts.

News Desk Client Software

The MAGIC THipPro News Desk Client Software is more or less a simplified MAGIC THip-Pro LAN Software without the possibility to configure the system and without the ON AIR status button. However, with this software a Pretalk Streaming licence is included which allows the operator to record the caller and presenter as WAV file in Pretalk status. Therefore, this software is perfect for e.g. small recording boothes. The caller lines assigned to the News Desk "studio" are available as pool to all News Desk Client workplaces.

MAGIC THipPro Screener Software

The MAGIC THipPro Screener Software comes as a <u>single-user licence</u> or as a <u>package of</u> five PC licences. It shows the caller lines in horizontal order and offers in addition to the "normal" operation some special functions for call screening. The user interface provides a detailed caller entry mask which can also be adapted individually to different programmes. The operator can prepare Noted Callers and Call Back Lists which can e.g. be send as preselection to the presenter's workplace. The presenter simply has to press a button to establish the connection. It is also possible for the Screener to note down callers' questions which are then displayed for the Presenter. For each caller, a history is created which shows the past entries and calls. Information about prizes can be entered as well as more detailed caller information such as e.g. his/her birthday and address. A special column can be displayed or hidden. In this column, the user can switch between Last Calls list, Caller's History, Blocked Callers list, Noted Callers and Call Back list. Besides, MAGIC THipPro Screener can also be opened in the Presenter Mode which is a simplified view for the talkshow host without data entry mask. Further modes are the Data Manager Mode and the Presenter ON AIR Mode showing only callers who are ON AIR together with the most important information which suitable for e.g. TV call-in shows.

All software versions can be adjusted in many ways to the individual requirements of our customers. Functions can be hidden or blocked for certain workplaces. The colour scheme of a studio or certain lines can be selected individually.

Due to a user and administrator password you can save your configurations from unauthorised access.

S – POTS/ISDN/VOIP

Options: Functions

First of all, the <u>MAGIC THiPro Admin Upgrade</u> should be mentioned. With this option it is possible to split or share the MAGIC THipPro between six studios, either as single-studio licences or as a package of six studios. In each studio, only the allocated caller lines are displayed. For each studio you can define individual Audio lines. There are no restrictions how many workplaces are installed for each studio, in maximum 20 LAN or Screener PC Clients are allowed or alternatively 30 News Desk Clients.

MAGIC THipPro also supports the <u>Pretalk</u> <u>Streaming</u> function. With this Upgrade the LAN connection between the control PC and the hybrid can be used for Pretalk which means no Audio cabling is required. The conversation with the caller is done via the PC sound card or a USB Headset. Besides, Pretalk Streaming allows you to record the caller and presenter signals as WAV file. In total, up to ten Pretalk Streaming licences can be activated, these licences can be assigned fixed to a PC workplace or defined as dynamic licence.

For game shows or sport reporting applications the <u>DTMF tone Analyser</u> is certainly an option to consider. It provides three operating modes: standard (showing the received DTMF tone), game show (displaying additionally who was the first caller sending the DTMF tone) and event (allows to show freely programmable event labels such as e.g. "Goal", "Red Card" instead of DTMF tones).

A special feature which is only available for the MAGIC THipPro is the <u>Social Media</u> <u>Upgrade</u>. With this option you can display your Twitter account and soon also your Facebook account in the telephone hybrid's user interface (MAGIC THipPro Screener or LAN Software). Most important functions that you know from Twitter are supported and interesting tweets can e.g. be marked by the Screener for the Presenter. The Social Media Upgrade requires a MAGIC THipPro Screener licence since one MAGIC THipPro Screener Client is used as Social Media Server. This Social Media Server PC must also be connected to the Internet.

Also exclusively available for the MAGIC THipPro system is the <u>MAGIC THipPro ACco-</u><u>nnect</u> Upgrade. This allows you to integrate a MAGIC ACip3 hardware Audio Codec into the user interface of the telephone hybrid. The Codec lines are shown as additional "caller lines" on the screen and provide highquality Audio over IP connections.

For all MAGIC THipPro with VoIP functionality you can optionally activate the <u>HD Voice</u> feature which enables the system to establish connections in outstanding 7-kHz (G.722) quality. If the system is equipped with ISDN cards, G.722 is also supported for ISDN calls.

The MAGIC THipPro 8 ISDN and the MAGIC THipPro 8 POTS can both be upgraded to a <u>VoIP</u> telephone hybrid to use the system in the Mixed Mode or exclusively for Voice over IP.

In case you need more caller lines for your application MAGIC THipPro 8 VoIP can be extended to <u>16 VoIP caller lines</u> and MAGIC THipPro 8 ISDN can be extended to <u>16 ISDN caller lines</u>. For the POTS version, the maximum capacity is 8 lines.

The latest addition to MAGIC THipPro's optional features is the <u>Dante/AES67 Interface</u> <u>card</u> which enables the system to route 32 Audio channels over IP using the Dante protocol which is also compatible to the AES67 standard. This feature is only available for VoIP systems.

With the LAN 3/4 module, MAGIC THipPro can be extended by two further LAN interfaces, so that in total four LAN interfaces are available.

AUDIO CODEC EXTENSIO

MAGIC THipPro ACconnect Upgrade



MAGIC ACip3

G.711/	Layer 2	Layer 3	AAC-LD	AAC-ELD	AAC-LC	HE-AAC	РСМ	apt-X	Opus	Ember	DHD SetLogic
0.722						VI/Z					Jerrogie

- Control via one user interface
 MAGIC THipPro LAN and Screener Software
- Audio Codec control via additional caller line
- Mono/stereo Audio Codec connection
- Pretalk/Hold for Audio Codec
- Common phone book
- Audio Codec connection via MAGIC THipPro software upgrade



With the new IP Audio Codec MAGIC ACip3 and the MAGIC <u>THipPro Telephone Hybrid</u> System AVT provides an integrated <u>all-in-one solution</u>: only one Management Software is required to control both Telephone Hybrid System and Audio Codec. The Audio Codec is displayed as an additional caller line in the MAGIC THipPro LAN or Screener Software. Incoming calls to the MAGIC ACip3 can be accepted as well as outgoing Mono or Stereo connections can be established via the hybrid's control software. With the Dual Codec Upgrade, two Stereo signals can be transmitted with one MAGIC ACip3 system. In this case, two additional caller lines would be available in the Telephone Hybrid's control software.

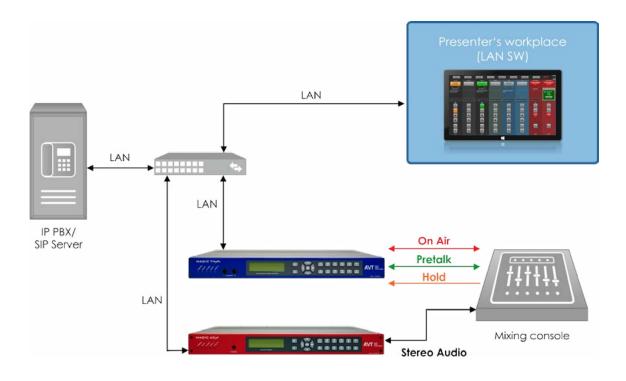
Details of the Audio Codec connection such as e.g. coding algorithm and bit rate are available via the caller line's Info button. Furthermore, a <u>common phone book</u> can be used.

If the MAGIC THipPro Telephone Hybrid is used with the Admin upgrade for up to six studios the MAGIC ACip3 Audio Codec can be integrated in each of the configured studios - or also only in selected studios. The three available Audio interfaces of the MAGIC ACip3 can be assigned to the different studios or the Audio routing can be done very comfortably via <u>DHD SetLogic commands</u> if a <u>DHD Audio router/matrix</u> is used. In each studio maximum two MAGIC ACip3 systems can be integrated – if each system has the Dual Codec Upgrade, you can share maximum four Stereo Audio Codecs in each studio.

In the user interface of the studios the audio codec line is displayed as an additional caller line. When a studio is using a shared Audio Codec, this Audio Codec cannot be controlled from the other studios. As soon as the operation is stopped, it is again available for the other studios.

AUDIO CODEC EXTENSIO

Example Application







AVT Audio Video Technologies GmbH

Nordostpark 91 90411 Nuernberg GERMANY

+49 911 5271 0

info@avt-nbg.de www.avt-nbg.de

twitter.com/avtgmbh

