

# oratis

Commentary System

## The Essence of Communication

The *oratis* commentary family offers systems tailored to the requirements of modern commentator working practices.

- + Digital signal processing
- + Excellent audio quality better than studio standard
- + Scalable from a single user to very large systems
- + Subscriber units are remote controllable
- + Ready to use
- + Intuitive, network-enabled configuration software
- + Highest reliability
- + Easy to use
- + Combinable with oratis intercom systems
- + Secure long-term investment
- + Leading edge technology on the market
- + German quality product

## The digital *oratis* Commentator Terminal

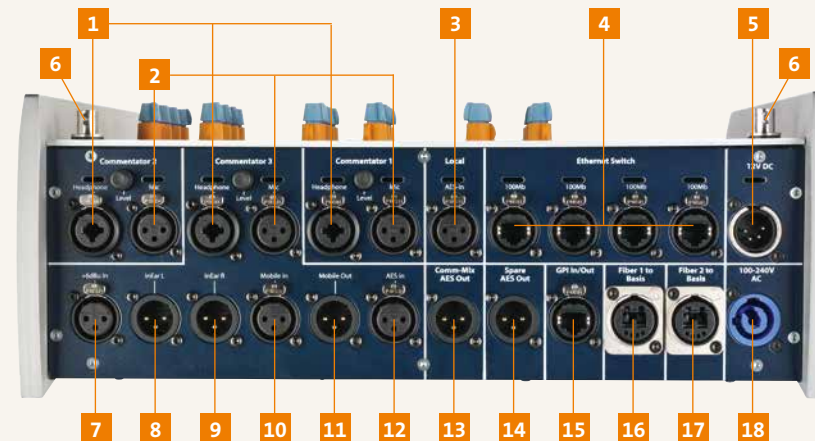
Each *oratis* COM 3 commentator terminal is a workstation tailored precisely to the application. Up to three commentators can be connected to each terminal – either with headsets or in the traditional manner with separate microphones and headphones. Operation remains simple since each terminal is preconfigured via the network.

The *oratis* COM3 commentator terminal incorporates a Gigabit Ethernet switch with a port for connecting the terminal to the corresponding *oratis* LINK card in an *oratis* matrix frame.

The switch also has four 100-Mbit downstream ports for other services directly at the commentator position. These ports can be used independently of the *oratis* system, for example, for displaying instructions from the intranet on a notebook computer, to provide web access, or for browsing videos in the commentary booth.



Commentator Terminal



Commentator Terminal Rear Panel

### Commentator Terminal features

- Remote control via the network
- Three freely assignable stereo aux signals
- Built-in talkback
- Built-in foldback
- Toggle between Commentary and Translator modes
- Failsafe fallback mix including low-level I/O for a mobile phone
- Remote configuration via the network
- Redundant networking
- BNC connectors for two LED gooseneck lamps

- |                                  |                                      |
|----------------------------------|--------------------------------------|
| 1 Headphones (Commentator 1 - 3) | 10 Mobile Phone In (Commentator 3)   |
| 2 Microphone (Commentator 1 - 3) | 11 Mobile Phone Out (Commentator 3)  |
| 3 Local AES3 In                  | 12 AES3 In (Commentator 3)           |
| 4 Ethernet Switch (4 x 100 Mbit) | 13 Commentary Mix AES3 Out           |
| 5 +12 V DC In                    | 14 Spare AES3 Out                    |
| 6 Connector for Gooseneck Lamp   | 15 GPI In / Out                      |
| 7 +6 dBu In (Commentator 3)      | 16 Fibre-optic Connection 1 (1 Gbit) |
| 8 InEar L (Commentator 3)        | 17 Fibre-optic Connection 2 (1 Gbit) |
| 9 InEar R (Commentator 3)        | 18 100 - 240 V AC In                 |

## Central System Components



Matrix Frame MF4

### Matrix Frame features

- Fully summing audio matrix with 24 bit / 48 kHz audio quality
- 32 bit TDM bus for up to 256 signals
- Hot-swap-enabled plug-in cards and power-supplies



Router R4000

### Router features

- 8 segments for up to 4 matrix frames each
- 1024 fully summing ports, expandable by cascading up to 4096 ports
- Highest reliability through master-slave redundancy



GPIO32

### GPIO Interface features

- 16 opto-electronic inputs
- 16 relay switch contacts
- Connection via Ethernet
- +5 V / +24 V auxiliary supply on the device
- Compact half rack width design (9.5-)
- Up to 120 GPIO32 units per CS 1624 (CS 1212: 100) can be connected

## Matrix Frame and Router

Name	Rack Units	Max. Number of Slots	Max. Number of Ports	Other
MF4	4	15	Max. 256 Ports, 120 Ports for Subscriber Panels	4 – 128 Ports per Card Slot, Digital Signal Processing, Redundant Power Supply
R4000	2	8 Segments	1024 Ports, 4096 Ports by Cascading four R4000	Digital Signal Processing, 128 Ports per Segment, non-blocking, Redundant Power Supply, Redundant Clock Distribution

## Interface Cards

Name	Number of Ports	Interface	Format	Other
IF LAN	1 / 16	LC (SFP-Modul)	Gbit Ethernet Layer 2	Fibre-optic Connection Board to connect COM3 Commentator Terminal
IF 8A	8 / 8	RJ45	Analogue Audio Connection	Board for 4-wire connections and Subscriber Panels
IF 8DIG	8 / 16	RJ45	AES3	Board for digital 4-wire connections and Subscriber Panels
IF 8COAX	8 / 16	BNC	DELEC Coax with AES3	Board for Subscriber Panels
IF 8PL	8 / 8	D-SUB 25	Analogue Audio Connection	2-wire Board for eight mono or four two-channel belt pack connections
IF MADI1	1 / 64	LC (SFP-Module)	MADI-Interface	Board for digital 4-wire connections, 64 bidirectional Audio Channels
IF Dante™	1 / 64	RJ45	Dante™ (AVB Ready)	64 bidirectional Audio Channels, depending on the Dante™-Network Configuration
IF Link	1 / 128	LC (SFP-Module)	Gbit Ethernet Layer 2	Redundant Fibre-optic Connection Board for System Interconnection

## GPIO Interface

Name	Rack Units	Inputs and Outputs	Other
GPIO32	1	16 Opto-electronic Inputs, 16 Relay Switching Contacts	+5 V and +24 V Auxiliary Power Supply, Screw Terminals

## The Configuration and Monitoring Software

The *oratis* VCMS (Venue Configuration and Monitoring Software) enables each commentary system to be managed simply and clearly. VCMS is the perfect tool for configuring and remote-controlling the commentator terminals.



### VCMS features (Venue Configuration & Monitoring Software)

- Simple and intuitive
- Comprehensive project management
- Monitoring of all relevant audio signals
- Visual level monitoring with bargraph display
- Remote control of all Commentator Terminals
- Storage of microphone and headphone presets
- Wide range of control options
- Networked operation

## Typical applications of *oratis* Commentary Systems

