

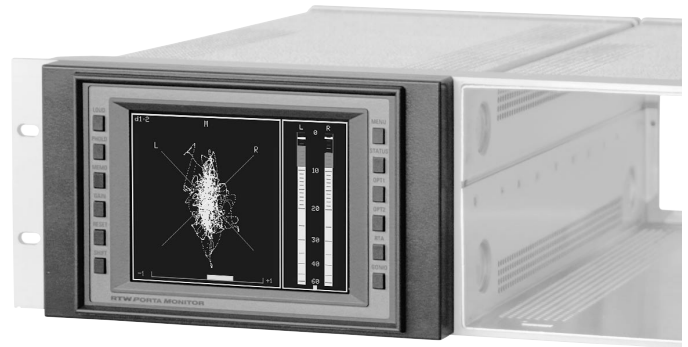
PortaMonitor 10621X-VID

GENERAL DESCRIPTION

Model 10621X-VID of the RTW PortaMonitor X series contains in a half-19" plug-in module for standard 19" rack-mount cabinets for wave form monitors an analog and digital 2-channel display unit with Peak Program Meter, Loudness display and Correlator especially for analog and digital stereo applications in video studios.

- 2-channel multi-standard peakmeter analog and digital
- Phase meter (correlator)
- Audio Vectorscope
- Loudness display
- Real Time Analyzer
- AES/EBU status monitor

The RTW PortaMonitor features balanced analog inputs as well as AES/EBU digital inputs. Comprehensive menus allow a user defined configuration of the instrument to meet with the requirements of the application. This settings may be saved to or recalled from memory as User Presets.



(Example of application, rack-mount cabinet not included in delivery)

2-channel Peakmeter analog and digital • Correlator • Audio Vectorscope • RTA • Loudness • AES/EBU Status

TECHNICAL SPECIFICATIONS

General

| | |
|------------------------------|--|
| Supply voltage: | +24 V DC (21 V to 30 V DC) |
| Current drain nominal: | 260 mA (power-up current is much higher) |
| Operating temperature range: | 0° to 45° celsius |
| Weight: | approx. 1200 g (10621X-VID) |
| Connectors: | 3 x 3-pin XLR-F 1 x 3-pin XLR-M 1 x 15 pin Sub-D-F (Remote) 1 x 4-pin low voltage connector Binder 710 (DC) |
| Dimensions: | 213.8 x 132.6 x 61.5 mm (W x H x D, half-19"/3U without mounting adapters) |

Functions

2-channel, analog and digital, multi-standard Peakmeter, audio vectorscope, AES/EBU status monitor, numeric level display, digital Over and Mute-detection, RTA

Analog Inputs

| | |
|---|--|
| Inputs: | 2 channels (1 x Stereo), electronically balanced |
| Max. input level: | +24 dBu |
| Adjustable range for reading reference: | +1 dBu to +16 dBu |
| CMRR: | > 60 dB |
| Input impedance: | > 10 k Ω (30 Hz bis 20 kHz) |

Digital Inputs

| | |
|--------------|---|
| Inputs: | 1 (Stereo), AES/EBU, transformer balanced, 110 Ω or High-Z |
| Sample rate: | 32 kHz to 96 kHz |

Digital Outputs

| | |
|----------|--|
| Outputs: | 1 (Stereo), AES/EBU, input signal looped through, unbuffered |
|----------|--|

Display

| | |
|------------------------|---|
| Display: | 1 color TFT, 5.7", 115 x 86 mm |
| Resolution: | 320 x 240 pixel |
| Colors: | 8 |
| Optimal angle of view: | 6 Uhr |
| Viewing direction: | horizontal +/-45° vertical +10°/-34° |
| Contrast: | > 85 with optimal angle of view |

Peakmeter, General

| | |
|----------------------------|--|
| Level display: | up to 2 channels, vertical display orientation, peak hold indicator switchable, additional spot correlator |
| Bargraph length: | 78 mm |
| Display modes: | 2-channel Stereo, analog or digital |
| Operation field: | below reference value: 0 to 15 dB in steps of 1 dB |
| Peak value memory: | additional peak hold indicators |
| Numeric level display: | selectable, displayed on the left side of the screen |
| Correlator spot indicator: | switchable |
| Loudness display: | additional spot indicator displayed on the bargraphs of the level display, RTW mode or A-, C-, CCIR-2k-weighted, RMS |

Peakmeter, Analog

| | |
|-------------------|---|
| Scales/Standards: | DIN+5 (-50 to +5 dB), DIN+10 (-50 to +10 dB), Nordic (-42 to +12 dB), British IIa („1" to „7"), IIb (-12 to +12 dB), VU (-21 to +3 dB), Zoom \pm 1 dB, Zoom \pm 10 dB, smpte20rel (-40 to +20 dB), smpte40abs (-35 to +24 dB) |
| Reference level: | <ul style="list-style-type: none"> • +6 dBu for: <ul style="list-style-type: none"> DIN, Zoom 20 (0 dB display), Nordic (+6 dB display), VU (lead selectable from 0 to 10 dB) • +8 dBu for: <ul style="list-style-type: none"> British IIa ("6" display), British IIb ("8" display) |
| Integration time: | according to selected standard or manually selectable (1 ms, 0.1 ms) |

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| | |
|----------------------------|--|
| Fall back time: | according to selected standard (e. g. DIN: 1.5 s/20 dB) |
| Gain: | according to selected standard: +20 dB (DIN, Zoom) +40 dB (Nordic, British Ila, British IIb) |
| Memory: | peak level (Peak Memory), peak hold |
| Peakmeter, Digital | |
| Word width: | 16 to 24 Bit |
| Scales digital: | 0 dB FS to -60 dB FS, 0 dB FS to -20 dB FS, |
| Scales quasi analog: | +9 dB to 0 dB to -60 dB (BR/ARD), DIN+5, DIN+10, Nordic, British Ila, IIb, Zoom 2, Zoom 20 |
| Special scales: | +18 dB to 0 dB (0 dB FS $\hat{=}$ +18 dB), +18 dB to -18 dB (0 dB FS $\hat{=}$ +18 dB), +20 dB to -40 dB (0 dB FS $\hat{=}$ +20 dB), |
| Headroom: | -5 dB to -20 dB, adjustable in steps of 1 dB |
| Integration time (Attack): | according to selected standard or Sample, 0.1 ms, 1 ms, 10 ms |
| Fall back time: | according to selected standard (e. g. DIN: 1.5 s/20 dB) |
| Gain: | according to selected standard: +20 dB (Zoom, quasi scale DIN) or +40 dB (digital scales, quasi scales British, Nordic) |
| High pass filter: | Off, 5 Hz, 10 Hz, 20 Hz |
| Peak hold display: | Integration time same as level display or sample |
| Digital Over indicator: | red spot indicators above each bargraph |
| Threshold: | Full Scale, Full Scale-1LSB, Full Scale-2LSB, -0.1 dB FS, -0.5 dB FS, -1 dB FS, -2 dB FS, -3 dB FS |
| Attack time: | 1 to 15 samples |
| Word width: | 16 to 24 bit |
| Mute indicator: | red spot indicators below each bargraph |
| Threshold: | all bits digital „0“ |
| Attack time: | 50, 100, 200 or 300 ms or 5 to 80 samples (in steps of 5 samples) |

Phase correlation display

| | |
|------------------------|---|
| Display mode: | bargraph (horizontal) |
| Scale range: | -1 r bis +1 r |
| Standardcolor setting: | red -1 r to -0.1 r yellow 0 r green 0.1 r to +1 r |
| Colors: | selectable |
| Attack time: | 1.0 s, 2.5 s |
| Memory: | negative peak correlation integrated in peak memory |
| Memory accuracy: | better 0.1 r |

Audio Vectorscope (VSC)

| | |
|----------------------------------|--------------------|
| Operation modes: | 2/0 (stereo) |
| Display modes: | X/Y or M/S |
| Viewing area: | 70 x 70 mm |
| AGC (Automatic Gain Control): | Auto or manual |
| Time of persistence: | Fast, medium, slow |

Real Time Analyzer

| | |
|--------------------------|--|
| Bands: | 31, 1/3-octave |
| Frequency range: | 20 Hz to 20 kHz (IEC-225 ANSI class 2) |
| Measuring/display range: | selectable: 15 dB, 30 dB, 45 dB |
| Integration time: | fast/medium/slow, Average or Peak |
| Peak hold display: | selectable, 2.5 s, 4.0 s or manual |
| Memory: | 8 plus peak hold |
| Peakmeter: | selectable, 2-channel |

AES/EBU Status Monitor

| | |
|---------------------|--|
| Status: | digital channels 1-2 |
| Status information: | locked, decoded AES/EBU status |
| Display: | hexadecimal, binary, active bits, audio bits |

Remote Control Interface

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|---------------------|--|
| Parallel interface: | external function control: Loud, PHold, Memo, Gain, Reset, Shift, Menu, Status, Opt 1, Opt 2, RTA, Gonio, additionally: switching to Digital, switching to Analog |
|---------------------|--|

Controls and additional display elements

| | |
|-------|--|
| Keys: | LOUD, PHOLD, MEMO, GAIN, RESET, SHIFT, MENU, STATUS, OPT 1, OPT 2, RTA, GONIO |
|-------|--|

Items delivered

| | |
|--------------------------|---|
| PortaMonitor 10621X-VID: | <ul style="list-style-type: none">• 2-channel PortaMonitor with RTA as half-19" plug-in module for standard 19" rack-mount cabinets for wave form monitors• two mounting adapters for cabinets with 407mm depth• counter plug for power supply• Operating manual |
| | Order number: 10621X-VID |

Data Sheet

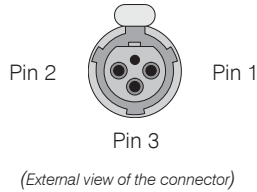
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CONNECTION

CH-L, CH-R, AES/EBU IN connectors (3-pin XLR-F)

Pin: Function:

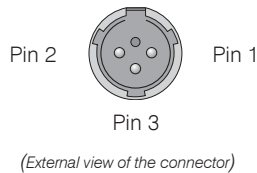
- 1 shield/chassis
- 2 +, hot
- 3 -, cold



AES/EBU OUT connector (3-pin. XLR-F)

Pin: Function:

- 1 Schirm/Gehäuse
- 2 +, hot
- 3 -, cold



Power supply connector (4-pin low voltage type Binder 710)

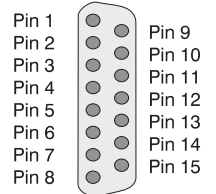
Pin: Function:

- 1-2 +24 V
 - 3-4 0 V
-

Remote connector (15-pin Sub-D-F)

Pin: Function:

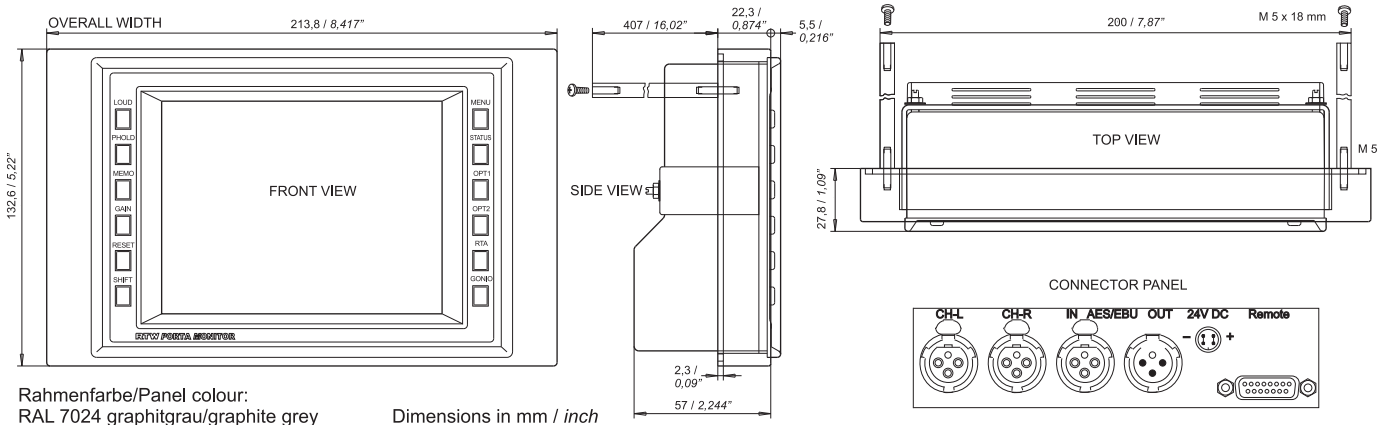
- 1 common potential for ext. switches - GND
- 9 external function selection: „MEMO“
- 2 external function selection: „GAIN“
- 10 external function selection: „MENU“
- 3 external function selection: „RESET“
- 11 external function selection: „STATUS“
- 4 external function selection: digital
- 12 external function selection: „OPT1“
- 5 external function selection: analog
- 13 external function selection: „OPT2“
- 6 external function selection: „LOUD“
- 14 external function selection: „RTA“
- 7 external function selection: „PHOLD“
- 15 external function selection: „GONIO“
- 8 external function selection: „SHIFT“



COLORS

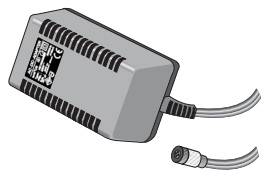
Case: Graphite grey RAL 7024,
Scale: silver with black labelling

DIMENSIONS

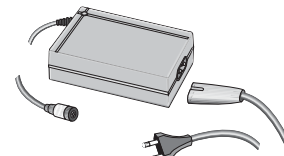


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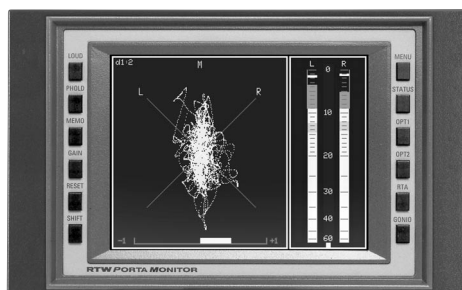
ACCESSORY COMBINATION



- Wide voltage power supply **1171-R**
90 - 240 V AC/24 DC, 630 mA
- Euro plug
 - Locking 4-pin low voltage connector



- Wide voltage power supply **1175-R**
100 - 240 V AC/24 DC, 2.7 A
- corresponding power cable
 - Locking 4-pin low voltage connector



2-Channel PortaMonitor 10621X-VID
Half-19"/3U plug-in module