

HD2 line Pro

made by
Penta Studiotechnik

PDP 42W - High Performance Broadcast LCD Monitor

HD2'ine Pro represents the newest generation of Broadcast LCD Monitors from Penta, utilizing state-of-the-art video and audio processing hardware combined with the most precise LC display technology available today.

A multi-format 3G/HD/SD-SDI input with an optional Fiber Optic Module supports data rates up to 3 Gb/s and accepts SD-SDI, HD-SDI, Dual-Link HD-SDI, and 3G-SDI. Accepted signal formats amongst others: 480i/29.97, 576i/25, 720p/50 and 720p/60, 10-bit/12-bit RGB 4:4:4, 1080psf/23.98, 1080p/23.98, 1080psf/24, 1080p/24, 1080psf/25, 1080p/25, 1080i/25, 1080psf/30, 1080p/30 and 1080i/30(29.97), 10-bit 4:2:2 1080p/50 and 1080p/60(59.94).

Multiple analog and digital audio I/O modules complement the range of available options, including discrete analog or digital inputs and de-embedded audio outputs.



42" Monitor

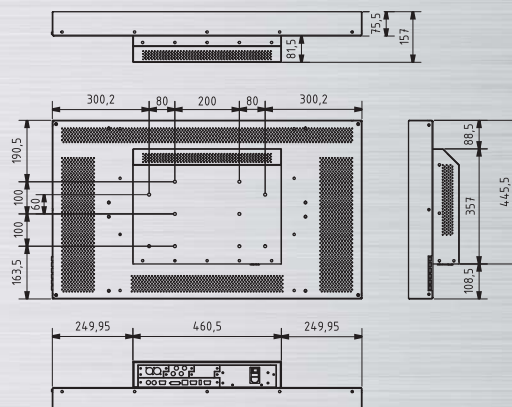
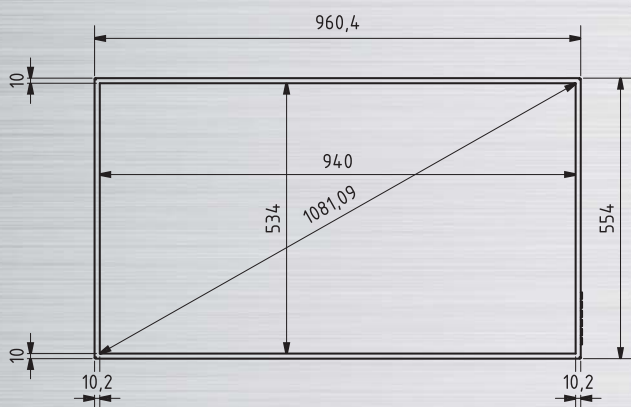


PDP 42W - Product Highlights at a Glance

- Ultimate picture quality
- Outstanding gray scale and color depth through a 16 bit panel driver
- Number of colors displayed: 1.07 billion colors (RGB - 10 bits each)
- Perfect and repeatable color matching between monitors
- Multiple color gamuts
- Precise picture uniformity and stability
- Multi-format signal support – freedom to operate in whichever format you work
- Automatic aspect ratio and mode identification
- 1:1 pixel mapping
- Perfect motion interpolation for interlaced signals
- Wide range of input formats: analog and digital up to 3 Gb/s
- Fiber optic input
- VITC/ATC timecode display
- NTP (network time protocol) driven realtime display
- WSS/AFD indicator
- Closed Caption decoding (ITU-608/708)
- Dolby indicator
- 8 channel audio level meter
- Selectable color temperature 3200 K, 5400 K, 6504 K, 9300 K
- Color component display modes: all, red-, green-, blue-only, monochrome
- Dynamic and static IMD support
- Tally support via GPI and VGPI (network)
- Safe area and safe title
- DCS remote control software
- Centralized monitor wall control via Ethernet
- Ethernet-based remote control panel
- Programmable GPI control
- Multilingual on screen menu display
- Built-in screensaver to minimize sticking
- Built-in diagnostic and test pattern generator
- Rugged, durable design
- No fans - no noise
- Optional ND glass filter
- Optional 3D-Mixer

Technical Specifications

| | |
|--|---|
| General | |
| Model | PDP 42W |
| Type | Multiformat HDTV / SDTV LCD Monitor - 10 bit panel |
| Screen size | 42" wide format |
| Aspect ratio | 16:9 |
| Native resolution | 1920 x 1080 pixels |
| Effective screen size | 523.26 mm (H) x 930.24 mm (W) |
| Display colors | 1.06 billion |
| brightness / max. brightness | 85 cd/m ² conforms to EBU Spec - 500 cd/m ² max. brightness |
| Contrast ratio | 1000:1 |
| Response time | 9 ms (gray to gray) |
| Viewing angle | H-178° / V-178° |
| H Frequency | 31.400 kHz - 75.000 kHz |
| V Frequency | 50 Hz / 60 Hz - max. 200 Hz |
| Color Space / Gamma / Motion Adapt. | |
| Color space | YCrCb BT.709 / YCrCb BT.601/ YPbPr / SMPTE240M / RGB / User |
| SDTV | ITU-R BT.601: PAL (576i), NTSC (480i) |
| HDTV | ITU-R BT.709: 720p, 1035i, 1080i, 1080p |
| Gamma correction | 10 bit gamma correction 1.0, 1.5, 2.0, 2.2, 2.35, 2.5 conform to EBU spec. |
| Color temperature | 3200 K / 5500 K / 6504 K / 9300 K |
| Scaling | Native / 4:3 / 16:9 / Full screen / User |
| Motion adaption | 5-line superadaptive 2D comb filters |
| Input / Output Terminals | |
| Video 1 | Composite Video / BNC / 1 Vss - 75 Ohm |
| DVI-I | DVI-I (single link) up to 1920x1200@60Hz including DDC1 EDID support |
| VGA | RGB / 15pin Sub-D, 0.7 Vss - 75 Ohm |
| 3G/HD/SD-SDI (optional - up to 4 inputs) | SMPTE 424M (3 Gb/s) SMPTE 292M / ITU-R BT.656 / SMPTE 295M |
| Fiber optic modul (optional - up to 4 inputs) | SMPTE 297M - 1260-1620 nm, LC/PC (female), single mode, -23 dBm sensitivity |
| External Control | |
| Ethernet network | Remote control, color alignment, dyn. IMD and Tally / RJ-45 8pin |
| RS 232 | Remote control / 9pin Sub-D (female) |
| GPI | Static IMD and Tally, function key / 15pin Sub-D (male) |
| Mechanical | |
| Operating temperature | 5 °C - 45 °C |
| Power requirement | AC 100 - 240V, 50/60 Hz |
| Power consumption (± 5% tolerance) | 280W |
| Power fuse | 100 - 240V AC 50/60Hz 3,2A Slow-blow |
| Dimensions (Width x Height x Depth) | 960.4 mm x 554.0 mm x 157.0 mm |
| Weight excluding ND Filter and Mounting (± 3% tolerance) | 29.50 kg |
| Weight including ND Filter excluding Mounting (± 3% tolerance) | 34.50 kg |
| Mounting | MIS-F, 200, 200, M6 x 10, C |
| Color | RAL 9005 Black |



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