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STORM|AUDIO

| | ISP 3D.16 ELITE | ISP 3D.20 ELITE | ISP 3D.32 ELITE Analog Edition | ISP 3D.32 ELITE Digital AES Edition | ISP 3D.32 ELITE Digital AVB Edition | ISP 3D.32 ELITE Reference Edition |
|---|---|---|---|---|---|---|
| | ELITE Range | ELITE Range | ELITE Range | ELITE Range | ELITE Range | ELITE Range |
| **Main Features** | | | | | | |
| Auro-3D / Dolby Atmos / DTS:X | ✓ / ✓ / ✓ | ✓ / ✓ / ✓ | ✓ / ✓ / ✓ | ✓ / ✓ / ✓ | ✓ / ✓ / ✓ | ✓ / ✓ / ✓ |
| SphereAudio - Binaural Immersive Sound for Headphones | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| StormOptimizer Room Calibration - powered by Dirac Live | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| StormMonitoring - Remote Monitoring | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Microphone Mini-Kit (mic + stand) for initial room calibration and permanent remote monitoring | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Multichannel / Surround Processing** | | | | | | |
| Output channels | 16 (32 optional) | 20 | 32 | 32 | 32 | 32 |
| Decoding / upmixing channels | up to 16 | up to 16 | up to 16 | up to 16 | up to 16 | up to 16 |
| Input sampling rate supported | up to 192 kHz | up to 192 kHz | up to 192 kHz | up to 192 kHz | up to 192 kHz | up to 192 kHz |
| Stereo downmix | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Post processing sampling rate | 48 kHz | 48 kHz | 48 kHz | 48 kHz | 48 kHz | 48 kHz |
| Dirac Live DSP runtime | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Bass management | ✓ (fully flexible) | ✓ (fully flexible) | ✓ (fully flexible) | ✓ (fully flexible) | ✓ (fully flexible) | ✓ (fully flexible) |
| Multi-subwoofer channels | Unlimited | Unlimited | Unlimited | Unlimited | Unlimited | Unlimited |
| Multi-way crossover (6 to 48 dB/oct) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Parametric EQ per channel | up to 20 bands | up to 20 bands | up to 20 bands | up to 20 bands | up to 20 bands | up to 20 bands |
| **HDMI (with new 2019 module)** | | | | | | |
| HDMI inputs / outputs | 7/2 HDMI 2.0 / HDCP 2.2 | 7/2 HDMI 2.0 / HDCP 2.2 | 7/2 HDMI 2.0 / HDCP 2.2 | 7/2 HDMI 2.0 / HDCP 2.2 | 7/2 HDMI 2.0 / HDCP 2.2 | 7/2 HDMI 2.0 / HDCP 2.2 |
| 4K UHD HDR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| High Dynamic Range : HDR10 / HLG / Dolby Vision | ✓ / ✓ / ✓ | ✓ / ✓ / ✓ | ✓ / ✓ / ✓ | ✓ / ✓ / ✓ | ✓ / ✓ / ✓ | ✓ / ✓ / ✓ |
| Color Space and Subsampling | 4:4:4, 4:2:2, 4:2:0 | 4:4:4, 4:2:2, 4:2:0 | 4:4:4, 4:2:2, 4:2:0 | 4:4:4, 4:2:2, 4:2:0 | 4:4:4, 4:2:2, 4:2:0 | 4:4:4, 4:2:2, 4:2:0 |
| Deep Color (12 bpc) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Max. resolution support | 4K 60fps 4:4:4 8bpc | 4K 60fps 4:4:4 8bpc | 4K 60fps 4:4:4 8bpc | 4K 60fps 4:4:4 8bpc | 4K 60fps 4:4:4 8bpc | 4K 60fps 4:4:4 8bpc |
| 3D / OSD | ✓ / - | ✓ / - | ✓ / - | ✓ / - | ✓ / - | ✓ / - |
| ARC / eARC | ✓ / ✓ | ✓ / ✓ | ✓ / ✓ | ✓ / ✓ | ✓ / ✓ | ✓ / ✓ |
| **Audio Inputs** | | | | | | |
| Digital input: coaxial, optical | 3 / 3 | 3 / 3 | 3 / 3 | 3 / 3 | 3 / 3 | 3 / 3 |
| Digital input: AES / EBU 16ch (Digital Cinema Input) | Optional Module | Optional Module | Optional Module | Optional Module | Optional Module | RJ45 x 2 |
| Analog stereo inputs: RCA | 4 | 4 | 4 | 4 | 4 | 4 |
| **Audio Outputs** | | | | | | |
| Analog main outputs, balanced (ch 1 to 16) | XLR | XLR | XLR | XLR | XLR | XLR |
| Analog main outputs, balanced (ch 17 to 32) | Optional Module | N/A | XLR | N/A | N/A | XLR |
| Analog main outputs, balanced (4ch expansion) | Optional Module | XLR | N/A | N/A | N/A | N/A |
| Analog secondary outputs, balanced (ch 1 to 16) | Optional Module | Optional Module | Optional Module | Optional Module | Optional Module | DB25 (2) |
| Analog secondary outputs, unbalanced (ch 1 to 16) | Optional Module | Optional Module | Optional Module | Optional Module | Optional Module | N/A |
| Stereo downmix outputs, balanced | XLR (2) | XLR (2) | XLR (2) | XLR (2) | XLR (2) | XLR (2) |
| Digital output: AES / EBU 32ch (ch 1 to 32) | Optional Module | N/A | N/A | RJ45 (4) | N/A | RJ45 (4) |
| Digital output: AVB 32ch (ch 1 to 32) | Optional Module | N/A | N/A | N/A | RJ45 (1) | N/A |
| **Set-Up Management** | | | | | | |
| Configurable multi-theater management | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Configurable audio zones management | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Indiviual Main and Zone source selection | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Theater and audio zones listening presets | Unlimited | Unlimited | Unlimited | Unlimited | Unlimited | Unlimited |
| Alternate theater management | Optional Module | Optional Module | Optional Module | Optional Module | Optional Module | ✓ |
| Backup and restore of set-up | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Firmware update via USB / network | ✓ / ✓ | ✓ / ✓ | ✓ / ✓ | ✓ / ✓ | ✓ / ✓ | ✓ / ✓ |
| **Control Inputs / Outputs** | | | | | | |
| USB type A (upgrade and monitoring) | 2 | 2 | 2 | 2 | 2 | 2 |
| Ethernet / Wi-Fi | ✓ / - | ✓ / - | ✓ / - | ✓ / - | ✓ / - | ✓ / - |
| Output trigger control | 4 (out) | 4 (out) | 4 (out) | 4 (out) | 4 (out) | 4 (out) |
| IR remote ports, in / out | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 |
| **Control / Custom Installation** | | | | | | |
| Web-based product configurator | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| TCP/IP API based control | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| StormRemote iPad control application | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Crestron, Control4, Savant, RTI home automation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Logitech Harmony IR database integration | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Front panel display | ✓ (TFT 4,3") | ✓ (TFT 4,3") | ✓ (TFT 4,3") | ✓ (TFT 4,3") | ✓ (TFT 4,3") | ✓ (TFT 4,3") |
| IR remote control handset | N/A | N/A | N/A | N/A | N/A | N/A |
| **Power Supply** | | | | | | |
| Voltage range | 100V to 240V | 100V to 240V | 100V to 240V | 100V to 240V | 100V to 240V | 100V to 240V |
| Type | SMPS | SMPS | SMPS | SMPS | SMPS | SMPS |
| Range selection | Universal | Universal | Universal | Universal | Universal | Universal |
| **Casing** | | | | | | |
| Home / Rack (removable ears) | ✓ / ✓ | ✓ / ✓ | ✓ / ✓ | ✓ / ✓ | ✓ / ✓ | ✓ / ✓ |
| Net weight (kg / lbs) | 13,1 / 28.8 | 13,2 / 28.9 | 13,6 / 29.9 | 13,3 / 29.3 | 13,3 / 29.3 | 14 / 30.9 |
| Size | 4RU | 4RU | 4RU | 4RU | 4RU | 4RU |
| Dimensions (cm / inches) | 49,00 x 47,90 x 19,10 / 19.29 x 18.86 x 7.52 | 49,00 x 47,90 x 19,10 / 19.29 x 18.86 x 7.52 | 49,00 x 47,90 x 19,10 / 19.29 x 18.86 x 7.52 | 49,00 x 47,90 x 19,10 / 19.29 x 18.86 x 7.52 | 49,00 x 47,90 x 19,10 / 19.29 x 18.86 x 7.52 | 49,00 x 47,90 x 19,10 / 19.29 x 18.86 x 7.52 |