

Espedeo Supra-5000

The award-winning cinema projector designed for mini-theatres

Perfect for the cinematic experience at home and at sea



red dot winner 2020

Ideal for boothless



Quiet



Light



Small



Ceiling
mount



No
hush-box

The Espedeo Supra-5000 is a DCI-compliant projection system featuring ALPD 4.0 RGB+ laser phosphor technology to deliver vibrant colors. The Supra-5000 is compact, lightweight and quiet with a noise level below 35dB(A) making it an ideal digital cinema solution for boothless mini-theatres.

Now it is possible to build a mini-theatre with less construction constraints and FF&E costs. The Supra-5000 is so compact that it does not require a standard projection booth. By facilitating VESA ceiling mount Espedeo VM-1140 without a hush-box, the Supra-5000 also opens the door for non-traditional exhibition options such as hotels, screening rooms and yachts.

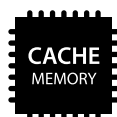
With its unique design, the small form factor of the Supra-5000 is achieved with GDC's All-in-One Board (DCI-compliant media server, Integrated Cinema Processor [ICP] and DMD formatter board) to help lower the total cost of ownership, and improve reliability and serviceability. With GDC's All-in-One Board, the Supra-5000 is compliant with Hollywood's digital right management based on digital cinema's KDM and DCP playback.

The Supra-5000 demonstrates the best possible projection system for mini-theatres and alternative venues from renowned technologists: Appotronics, GDC and Texas Instruments.

Features

- 1** Specifically designed for in-auditorium ceiling mount (no hush box). It is smaller, lighter and quieter when compared to other cinema projectors with the same brightness level.
- 2** Air cooling without exhaust.
- 3** Laser phosphor digital cinema projector with the world's leading ALPD 4.0 technology, achieving 99% of Rec.2020 color gamut.
- 4** Light engine and lens are designed with IP5X level of dustproof protection for maximizing brightness.
- 5** Lumens output: 5000 lumens with DCI colors.
- 6** Affordable DCI-compliant projection system offering amongst the lowest TCO thanks to its architecture and advanced technology.
- 7** Built-in GDC's All-in-One-Board, which is designed with near-zero maintenance electronics and tested for 100,000 Mean Time Between Failures (MTBF).
- 8** Supports 3D playback with Espedeo PM-2000B 3D Polarized System reaching over 30% light efficiency.
- 9** GDC's All-in-One Board provides diskless CineCache™ (built-in cache memory). Content ingest and playback can be performed concurrently without local HDD storage. Incredibly fast ingest during playback.
- 10** Supports GoGoCinema™ cinema-on-demand platform with GDC Cinema Automation 2.0 that enables the playback of thousands of movies and auto power-on/power-off for projector's laser according to the pre-set schedules.*
- 11** With the built-in cinema audio processor option, Supra-5000 offers the capability to reproduce an incredibly deep, rich listening experience designed for 5.1 and 7.1 PCM uncompressed surround sound functionality – the purest digital sound not “contaminated” by compression. The embedded robust audio processing engine can achieve precise sound system calibration of the theatre by supporting
 - 5.1 / 7.1 audio equalizer (EQ)5.1 / 7.1 audio equalizer (EQ)
 - 1/3-octave graphic EQ with independent bass and treble controls (non-LFE channels)
 - Parametric EQ (choice of dedicated general LFE settings or SMPTE standard LFE settings)
 - 2-way crossover with selectable filter type and configurable slope
 - Fader (gain adjustment), global and individual channel delay
 - Uncompressed audio processing (including LPCM on HDMI input)
 - Provides booth monitor output
 - Built-in signal generator, mute with configurable fade in/fade out times, wide dynamic range
 - Audio input level display, easy configuration back up and restore
 - Channel routing & duplication

Espedeo offers an optional Audio IO (Input-Output) Box for Supra-5000, with a built-in 8-channel premium quality digital-to-analog converter (DAC), to interface with external audio equipment such as analog amplifiers, booth monitor, microphone, and media players.
- 12** Supra Command Center: an intuitive web-based control UI connected to projector's built-in Wi-Fi that can be accessed with a desktop, a laptop or a tablet.
- 13** Option to customize magnetic cover to match with your ceiling color.



Accessories for **Supra-5000**



1.28-1.92:1 lens



0.8:1 lens

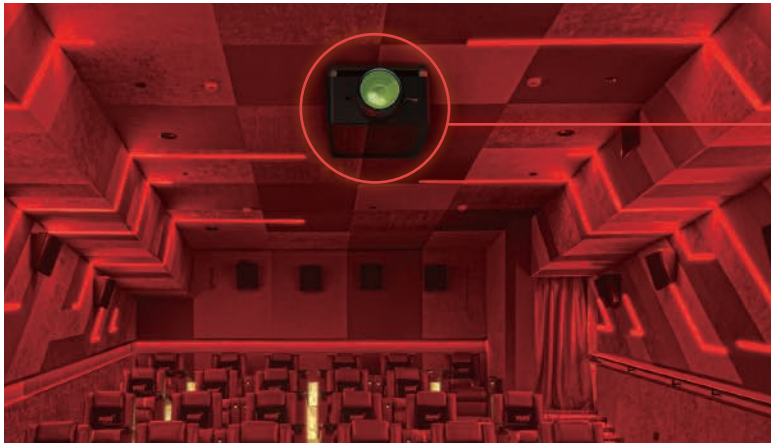


Espedeo PM-2000B 3D polarized system and glasses



Espedeo VM-1140 VESA ceiling mount

Option to customize magnetic cover to match with your ceiling color



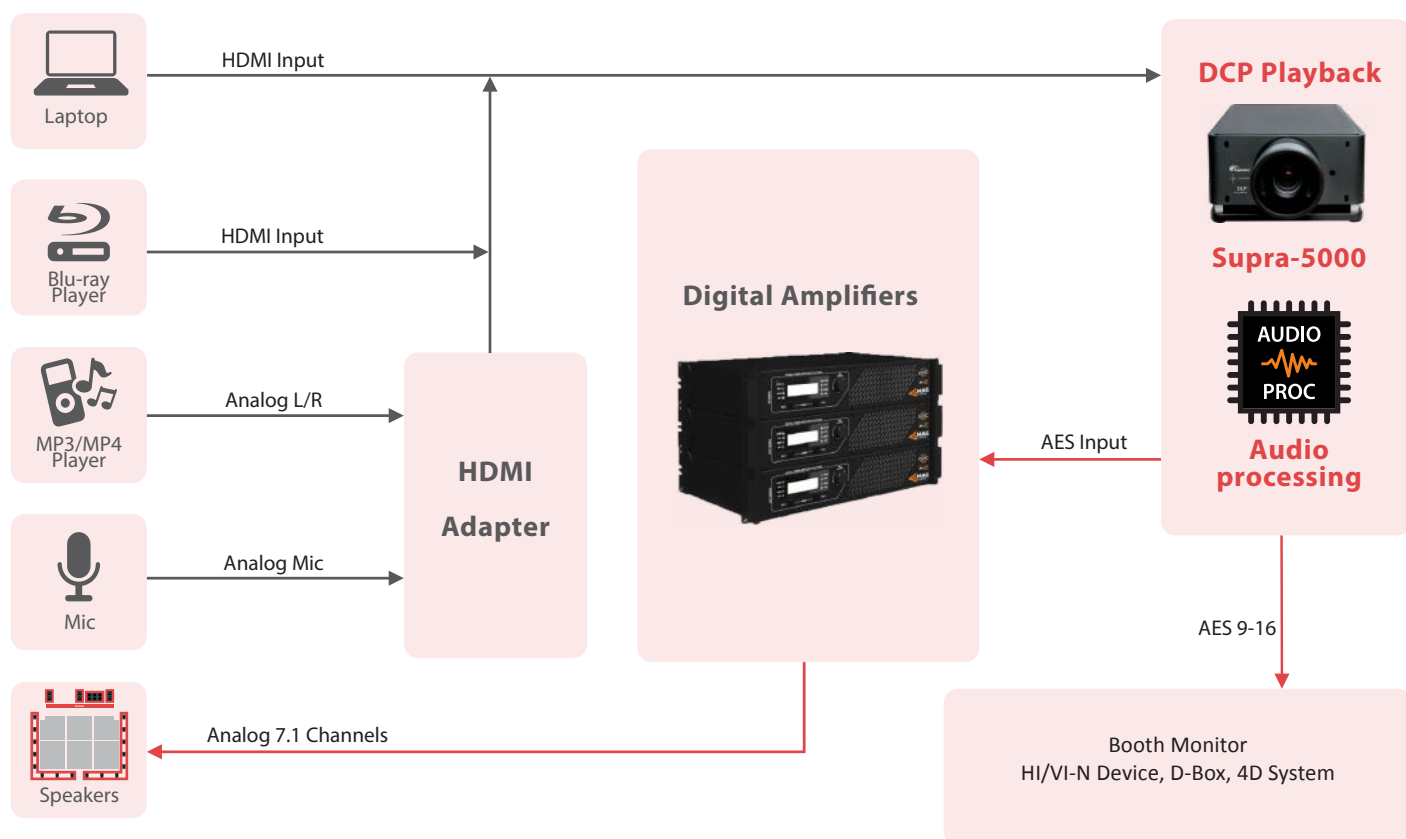
Built-in Wi-Fi

Supra Command Center

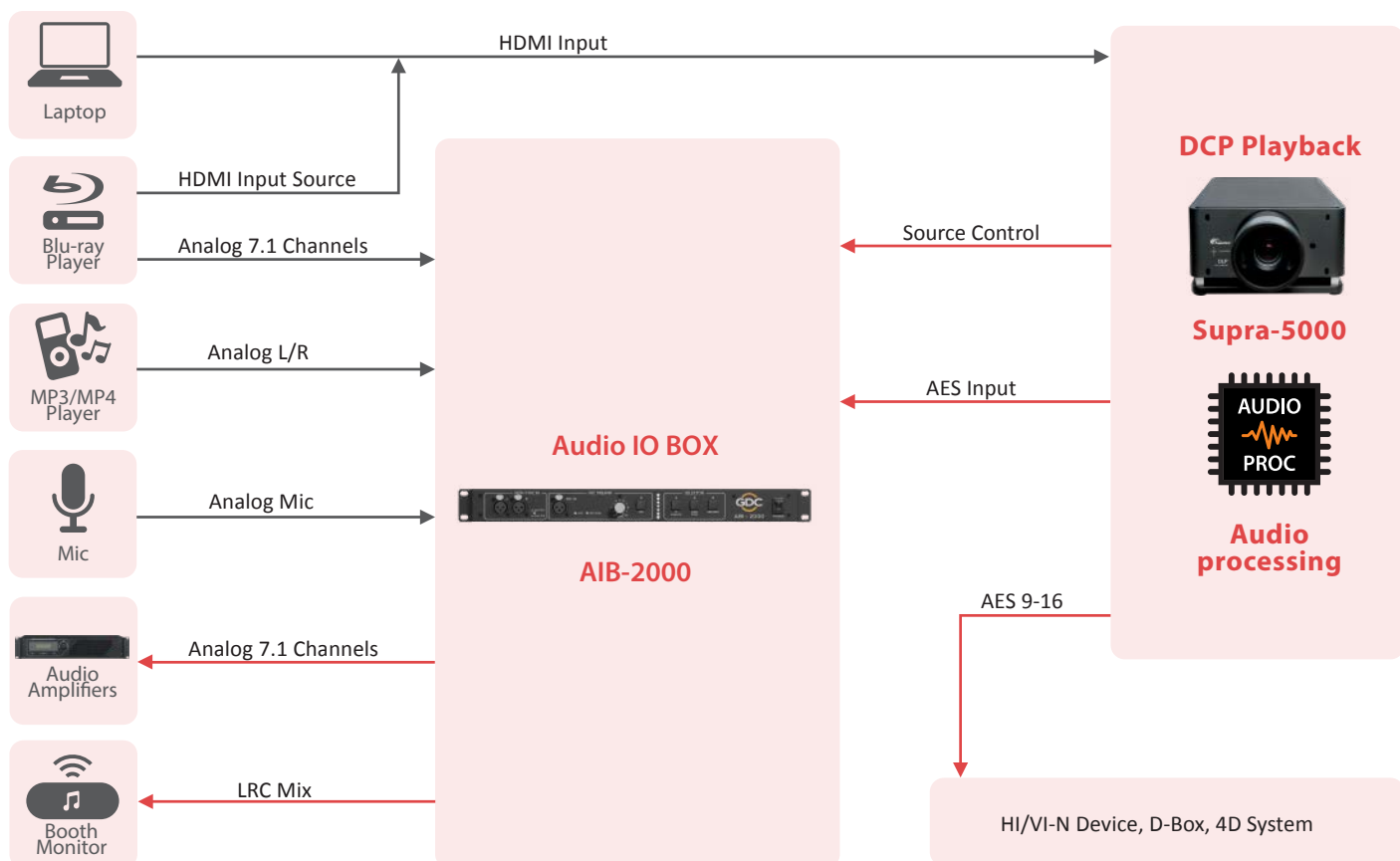
- Integrated projector and media-player control
- Screen setup and management
- Cinema Automation setup
- Show scheduling with auto-playlist
- Intuitive web-based user interface accessible via compatible web-browser on touch-panel tablet, Mac notebook or PC



Built-in Professional Cinema Audio Processor with digital amplifiers[#]



Supra-5000 and optional Audio IO Box to interface with external audio equipment[#]



Powered by **ALPD 4.0 laser** and **DCI (studios) approved commercial cinema player**



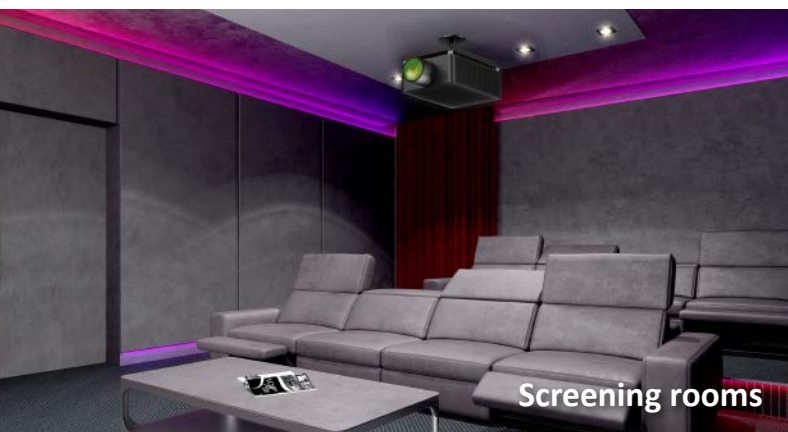
*Thanks to its sophisticated technical features,
the Espedeo Supra opens up areas where
professional projection had not been possible before.*



The jury of Red Dot Design Award

reddot winner 2020

Build professional cinema “anywhere” you want



Screening rooms



Mini-theatres



Yachts



Private cinemas



Hotels

Espedeo Supra-5000 specifications



CINEAPPO



Light source type	ALPD 4.0 RGB+ laser phosphor technology
Motorized lens	1.28-1.92:1, 0.8:1
Lens shift	V : $\pm 50\%$ & H : $\pm 25\%$
Resolution	2048 x 1080 pixels
Contrast ratio	2,000:1
Screen size	Up to 6m (20ft) wide (screen gain 1.0@20fL)
Color gamut	DCI-P3
Projector brightness	5,000 lumens
Laser lifetime	Up to 30,000 hours depending on mode of operation ¹
3D system option	Espedeo PM-2000B with unique polarized light technology, luminous efficiency reaches over 30% with customized single beam
Digital Micromirror Device (DMD)	0.49" TRP
Light engine protection level	IP5X
Noise level	$\leq 35\text{dB(A)}$ (no hush box design)
Cooling	Air cooling without exhaust
Video input	HDMI 1.4 (2 x Type A receptacle)
System interfaces	1 x Wi-Fi - IEEE 802.11n 2 x Gigabit Ethernet (1GbE/RJ-45) 2 x USB 3.0 (A-Type Female) 8 x GPI (2 x RJ-45) 8 x GPO (2 x RJ-45) 1 x BNC (LTC-OUT) 1 x 3D Interface
Audio output	16/24-bit AES3, 16 channels, 48/96 kHz (2 x RJ-45)
DCP playback	DCI-compliant JPEG 2000 frame rate (fps) 2D – 24, 25, 30, 48, 50, 60 3D – 24, 25, 30 SMPTE digital cinema package (DCP), Interop DCP
Video processing features	<ul style="list-style-type: none"> • Color-space conversion – supports YCbCr709, REC 709, X'Y'Z', YCxCz • Deinterlacing • Scaler to support 2K
Security	<ul style="list-style-type: none"> • NexGuard® forensic watermarking • FIPS 140-2 (Level 3 security certified)
Subtitles	Subtitle overlay
Closed captioning device	Support SMPTE430-10
Integrated storage	2TB CineCache™
External storage with options	<ul style="list-style-type: none"> • Capable of direct connection to and designed for use with up to 204TB SCL Mk2 Series Centralized Playback Server • Network-attached storage (NAS)²
Supra Command Center	<ul style="list-style-type: none"> • Integrated projector and media-player control • Screen setup and management • Cinema automation setup • Show scheduling with auto-playlist • Intuitive web-based user interface accessible via compatible web-browser on touch-panel tablet, Mac notebook or PC
Dimensions (W x D x H)	480 x 803 x 275 mm / 18.90 x 31.61 x 10.83 in.
Maximum weight	47kg / 104.1 lbs (with lens 1.28-1.92:1)
Power requirement	<ul style="list-style-type: none"> • Type 1 rating: 200-240Vac 50/60Hz 4-3A (single phase) or 200-240Vac (2W + \oplus), 50/60Hz, 4-3A (dual live line) • Type 2 rating: 100-240Vac, 50/60Hz, 9-4A (single phase)
Power consumption	750W
Operating temperature	5°C to 35°C (41°F to 95°F)
Storage temperature	-10°C to 60°C (14°F to 140°F)
Operating humidity	10% to 85% RH (Max.)

¹Laser light source: 30,000 hours (at 3,500 lumens setting); 20,000 hours (at 5,000 lumens setting)

²Please check with GDC on qualified NAS storage



Perfect for mini-theatres, boothless no hush-box installation

Patent Pending

Espedeo Supra-5000 Built-in Cinema Audio Processor (optional) specifications

Audio Source

DCP source	5.1/7.1 channels (up to 16 channels passthrough)
HDMI input	8 channels PCM
Microphone input (via Audio IO Box or HDMI adapter^)	Microphone level input with switchable +48V phantom power, adjustable gain and selectable HPF (via Audio IO Box^)
Non-sync input (via Audio IO Box or HDMI adapter^)	Stereo line level inputs
Analog balanced 7.1 input (via Audio IO Box^)	8 channels analog line level inputs

Audio Output

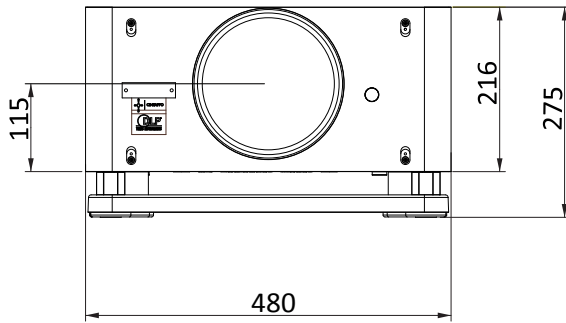
Digital audio output	16 channels AES3, LCR Monitor, HI/VI-N, LTC (sync for 4D systems) and DBOX motion signal
Analog audio output (via Audio IO Box^)	8 channel balanced analog line level outputs

Audio Processing

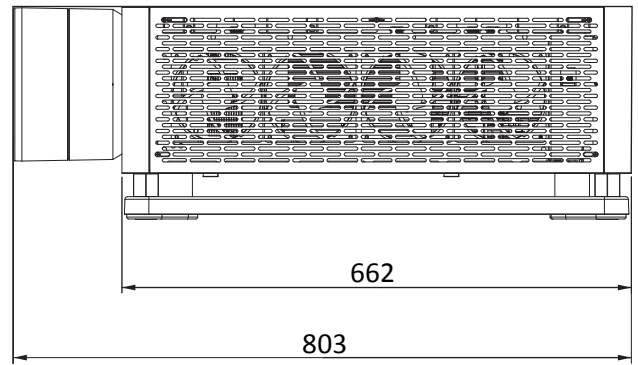
DSP Processing	32 bits full floating point DSP processing
Graphic EQ for 7 channels (non-LFE channels)	1/3 octave graphic EQ (27 bands)
	Band gain: -6 dB to 6 dB in 0.1 dB step
Bass/Treble for 7 channels (non-LFE channels)	Bass level: -6 dB to 6 dB in 0.1 dB step
	Treble level: -12dB to 12 dB in 0.1 dB step
	Treble corner frequency: 1K/2K/3K/4K Hz
LFE parametric EQ	Center frequency: 20Hz to 120 Hz in 10 Hz step
	Bandwidth (Q): 0.5 to 10 in 0.1 step
	Gain: -12~6dB in 0.1 dB step
LFE low pass filter	Default / SMPTE
Crossover	Mode: 2-way
	Filter type: Butterworth, Linkwitz-Riley
	Filter slope: -6, -12, -18, -24, -36, -48 dB/octave
Global delay for all channels	-250~200ms
Audio delay for individual channel	0~500ms
Volume control (main fader) for all channels	-90dB~10dB (fader 0~10)
Mute (fade in/out) duration configuration	0.2 to 5.0 second in 0.1 step
Channel gain for individual channel	-22dB~8dB in 0.1dB step
PCM channel assignment	Yes
Signal generator	100Hz, 1KHz, 10KHz, PinkNoise, sweep
Audio input level meter	8 channels
Backup and restore	Audio configuration presets (equalization (EQ), crossover, channel delay, global delay and gain)
Performance	
Dynamic range (via Audio IO Box)	>105dB

Dimensions

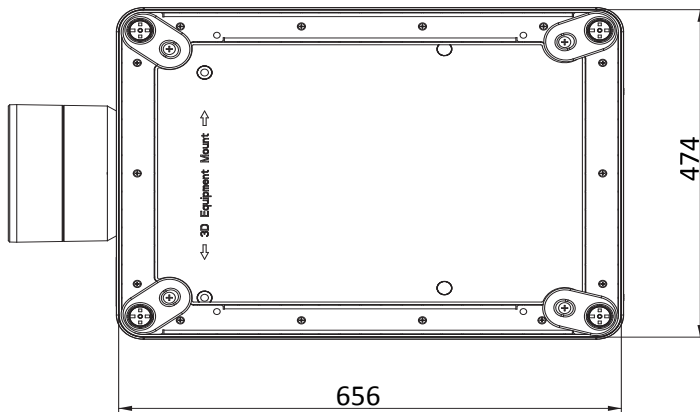
Unit (mm)



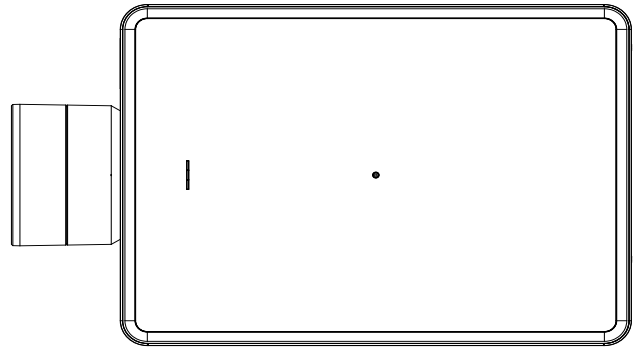
Front View



Side View



Top/Bottom View



Technical support

Australia / New Zealand

Hotline: +61 407-040-744

Email: aus-support@espedeo.com

Latin America

Hotline: +52 55-8851-1198

Email: latam-support@espedeo.com

North Asia

Hotline: +852-3520-0920

Email: na-support@espedeo.com

Europe

Hotline: +34 928-912-295

Email: eur-support@espedeo.com

North America

Hotline: +1 877-743-2872 (US Toll Free)

Email: us-support@espedeo.com

South East Asia

Hotline: +65 6100-4328

Email: sg-support@espedeo.com

India

Hotline: +91 022-4044-0500

Email: in-support@espedeo.com