Multi-Channel Direct Digital Synthesizer (DDS)

Our synthesizers offer solutions for laser applications requiring precise frequency tuning and agile control. We offer both single and multi-channel models with an embedded controller that manages bi-directional data between a computer and an acousto-optic device. Our models have multiple communication ports and firmware allowing frequency scanning, wavelength locking and temperature compensation. Applications

- Spectroscopy Fluorescence
- Microscopy Flow Cytometry
- Laser Projection/Light ShowSupercontinuous Laser

Wavelength Selection

| Frequency Specifications | Units | 1-Channel | 8-Channel | 8-Channel HP |
|---|--------|-----------|-----------|--------------|
| Range | MHz | 25-160 | 25-160 | 25-160 |
| Resolution | Hz | 0.1 | 0.1 | 0.1 |
| Stability | ppm/°C | ±2 | ±2 | ±2 |
| Preload Time | μs | <10 | <10 | <10 |
| Toggle Time | ns | <20 | <20 | <20 |
| Amplitude Specifications | Units | 1-Channel | 8-Channel | 8-Channel HP |
| Output Power, nominal for all channels on | Watt | 0.2 | 1.0 | 3.2 |
| Output Power, per channel | Watt | 0.2 | 0.125 | 0.4 |
| Modulation Bandwidth | MHz | >2 | >2 | >2 |
| Dynamic Range | dB | >40 | >30 | >30 |
| Intermodulation and Spurious | dBc | >-45 | >-45 | >-45 |
| Signal to Noise Ratio | dB | >90 | >65 | >65 |
| Power Input | Units | 1-Channel | 8-Channel | 8-Channel HP |

| | 01113 | Т-спанне | | 0-01181111101111 |
|--------------------------------|----------|-----------|----------------------------|-------------------------|
| AC powered, 19-inch Rack Model | Vac | NA | 100-240 @ 5 0-60H z | NA |
| DC powered, OEM Configuration | Vdc | — | 24 @ 2A | 24 @ 2A |
| Environmental | Units | 1-Channel | 8-Channel | 8-Channel HP |
| Operating temperature Size | °C mm | 10-40 | 10-40 250 x 200 x 44 | 10-40 250 x 200 x 44 |



GENERAL FEATURES

- 1, 8 channels, combined as composite output
- On-board composite output power measurement

Independent linear amplitude modulation on each channel

Common blanking signal for all channels

Independent frequency shift modulation on each channel

Wavelength locking / temperature compensation

1-Channel Digital Synthesizer (DDS)

上海昊量光电设备有限公司 Phone: 4006-888-532 WeChat: Auniontec + Warts Swww. + Harts Steelen E

