

IXYS  
COLORADO



*...The Pulse of the Fut*

# Specifications

| Delay                                |                                    |
|--------------------------------------|------------------------------------|
| Channels                             | 4 independent + 1 T0               |
| Range                                | 0-2000 s                           |
| Resolution                           | 1 ps                               |
| Timebase Accuracy                    | 1 ns + (timebase error x delay)    |
| RMS Jitter                           |                                    |
| Ext. trig. To any output             | <10 ps + (timebase jitter x delay) |
| T0 to any output                     | <2 ps + (timebase jitter x delay)  |
| Trigger Delay (ext. trig. to output) | 92.5 ns <sup>1</sup>               |

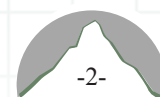
| Timebases      |                                              |
|----------------|----------------------------------------------|
| Std.           |                                              |
| Type           | Crystal                                      |
| Jitter         | 10 ns / s                                    |
| Stability      | $2 \times 10^{-6}$                           |
| Aging          | (ppm / yr) 3                                 |
| External Input | 10 MHz +/-10ppm, sine > 0.5 Vpp, 1k $\Omega$ |
| Output         | 10 MHz, 2Vpp sine into 50 $\Omega$           |

| SYSTEM EXTERNAL TRIGGER INPUT(S) |                                               |
|----------------------------------|-----------------------------------------------|
| Rate                             | DC to 1 / (10 ns + longest delay), max 30 MHz |
| Threshold Adjustable from        | 0.2 to 4.8 V <sup>2</sup>                     |
| Max Input Voltage                | 5 VDC                                         |
| Slope                            | Rising or falling edge                        |
| Impedance                        | 1 M or 50 selectable                          |

For sales information or technical questions contact your local IXYS representative or IXYS Colorado directly at:

Sales: **970.493.1901** or **sales@ixyscolorado.com**

Technical Support: **techsupport@ixyscolorado.com**



| INTERNAL RATE GENERATOR |                                   |
|-------------------------|-----------------------------------|
| Rate                    | 100 $\mu$ Hz to 100 MHz           |
| Resolution              | 5 $\mu$ Hz                        |
| Accuracy                | Same as timebase                  |
| Jitter                  | < 2 ps (100 MHz / N trigger rate) |

| ADJUSTABLE OUTPUTS |                                       |
|--------------------|---------------------------------------|
| Source Impedance   | 50 $\Omega$                           |
| Pulse Width Range  | 1 ns - 2000 s                         |
| Rise Time          | < 2 ns                                |
| Overshoot          | < 100 mV + 10% pulse amplitude        |
| Offset             | $\pm$ 2V                              |
| Amplitude          | 0.5 to 5.0 V (level + offset < 6.0 V) |
| Accuracy           | 100mV + 5% of pulse amplitude         |

| General             |                                                                  |
|---------------------|------------------------------------------------------------------|
| Communications      | GPIO, RS-232, Ethernet                                           |
| Non-volatile memory | 5 sets of instrument configurations can be stored                |
| Power               | < 200 W, 90 - 264 VAC, 47 - 63 Hz                                |
| Dimensions          | 8.5W x 3.5H x 13D (See web site for solid geometry download)     |
| Weight              | < 10 lbs                                                         |
| Warranty            | One year parts and labor on defects in materials and workmanship |

<sup>1</sup> When using ref clock and aligned trigger pulse

<sup>2</sup> Threshold is adjustable when in 50 ohm termination mode. When using 1 Meg Ohm termination, threshold is set at 2.5V for use with a 0 to 5 V signal.

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