

## UDX-P03 Low-Jitter Trigger Head



### Features and Benefit

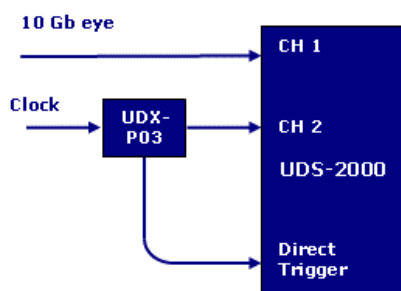
- 2 GHz to 12 GHz Wide and Continuous Frequency Range
- Extremely Low RMS Jitter less than 300 fs typ.
- High sensitivity of 200 mV p-p up to 8 GHz
- No Trigger Level control

### Applications

- Design, Verification, and Manufacturing of Telecom and Datacom Components and Systems operating up to 12 Gbps
- Optional N- or SMA- input connector
- Optional BNC or SMA output connector

### Product Description

The UDX-P03 Low-Jitter Trigger Head extends the capability of the UDS-2000 series by providing extremely low trigger jitter. The Head can be used as an advance module to acquire both sine-wave signals and eye diagrams up to 12 GHz with RMS jitter up to 300 fs.



Typical application setup for UDX-P03 Low Jitter Trigger Head

### Specifications and Characteristics

**Compatibility** - Compatible with all UDS-2000 Series sampling oscilloscopes.

**Division factor** —

Reference channel: 4;

Trigger Channel: 16.

**Bandwidth and Sensitivity** —

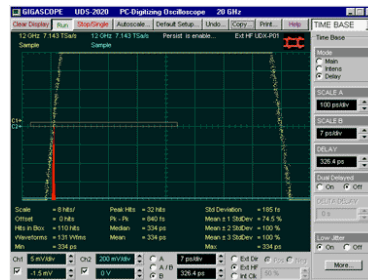
200 mV p-p from 2 GHz to 8 GHz,

400 mV p-p from 8 GHz to 10 GHz,

600 mV p-p from 10 GHz to 12 GHz (typical)

**Typical RMS Jitter** - 100 fs + 0.2% of input signal period within specified sensitivity.

For reference clock signal in the 2 GHz to 4 GHz range an additional filter is required.



### UDS-2020 with UDX-P03 acquires 10-GHz sine-wave signal with RMS jitter of 185 fs

#### Maximum Safe Trigger Input

**Voltage** -  $\pm 2$  V (dc + peak ac) or 16 dBm.

**Input Coupling** - AC.

**Input Connector** - Optional N-type or SMA (m).

**Output Connector** - Optional BNC (m) or SMA (m).

**Cable Length** - 1 m.

**Dimensions** – Width: 78 mm, Height: 21 mm, Depth: 54 mm.

**Weight** – 220 g.

### Ordering Information

**P/N 790029** –

UDX-P03 Low Jitter Prescaler Head. 12 GHz, 300 fs RMS jitter.

**Includes:**

Installation CD.

**Option NB:** N-type (f) input connector / N-type (m) reference output connector / BNC (m) trigger output connector.

**Option NS:** N-type (f) input connector / N-type (m) reference output connector / SMA (m) trigger output connector.

**Option SB:** SMA-type (f) input connector / SMA-type (m) reference output connector / BNC (m) trigger output connector

**Option SS:** SMA-type (f) input connector / SMA-type (m) reference output connector / SMA (m) trigger output connector.