

## Main Specifications

### Mainframe

PRF	0.1 - 10kHz
Trigger	Internal/External (External: Variable Trigger Level, Edge Selectable)
Display	552×256pixel EL Display 96dpi
Coupling Velocity Range	1,000m/s - 16,000m/s (40.0 - 630.0in/ms)
Materials Velocity Range	1,000m/s - 16,000m/s (40.0 - 630.0in/ms)
Analog Output	2 channel
Digital Output	2 channel
PC Interface	RS-232C 16bit Parallel I/O (1 set each)
Power Supply	85 - 132 / 170 - 264VAC Automatic selection 100W max.
Mount & Size	Any Aluminum 19" EIA Rack Mounts 448.6mm W×132.5 H×398mm D (Excluding Protuberances)

### The specification of HF/LF version

	HF	LF
Pulse Amplitude (Negative Spike)	-200V max	-500V max
Pulse Fall Time	1.0nsec max	7.0nsec max
Pulse Energy	4 step	2 step
Pulse Voltage	—	4 step
Pulse Damping	4 step	4 step
Receiver Damping	4 step	4 step
Receiver Bandwidth	1 - 300/5 - 300MHz	0.25 - 25/1 - 25/0.25 - 5/1 - 5MHz
Band Pass Filter	10/20/40/80MHz	1/2.25/5/10/15MHz
Gain Set-up	0 - 71dB/1dB step UNCAL(±0.5dB)	0 - 60dB/0.1dB step×2ch 0 - 40dB/20dB step
A/D Converter	8bit 400M/800M/1.6GSPS Analog Band 0.2 - 150MHz	9bit 200MSPS x 2ch Analog Band DC - 33MHz
Gate	IF Echo Gate Monitor Gate × 1	IF Echo Monitor Gate x 2
Gate Setting Resolution	5nsec	20nsec
Gate Tracking	IF Echo	IF Echo BW Echo
Path Length Measurement	0 - 40.96 μsec	0 - 2621.40 μsec
Path Length Resolution	1.0nsec	20nsec
Path Length Measuring Unit	sec/mm/inch	mm/inch
DAC/TCG	—	32.4dB max
Echo Wave Form Presentation	RF	FW/HWP/HWN (Option: RF)
Remote Pulsar /Pre-Amplifier Size	Standard 80mm W×26mm H×80mm D	Option 80mm W×26mm H×80mm D

### Options

- Remote Pulsar/Pre-Amplifier (LF)
- 16bit Parallel I/F Board
- RF Wave Form Presentation (LF)
- Carrying Handle
- Desk Top Set
- Connecting Cables

• Contents of this catalogue were based on December, 2014 and are subject to change without notice.  
• The color of products shown in the pictures might be slightly different from the actual color.

Creating the future by INDES

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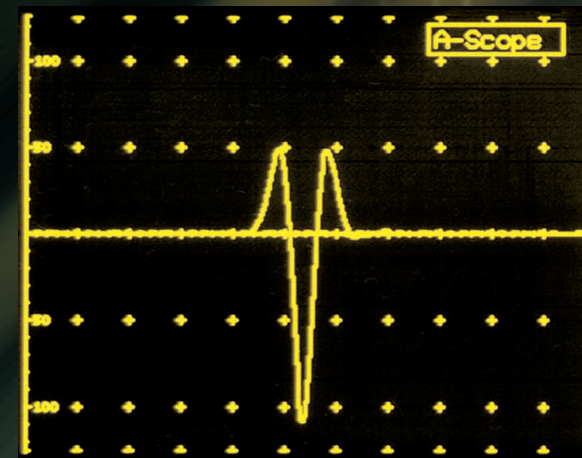


Certified Branch: Osaka Branch

E-his-6-0916-3h

High Speed & Wide Band Ultrasonic Flaw Detector

# HIS3 HF/HIS3 LF



Polymer Probe TKP 125-3-7.5



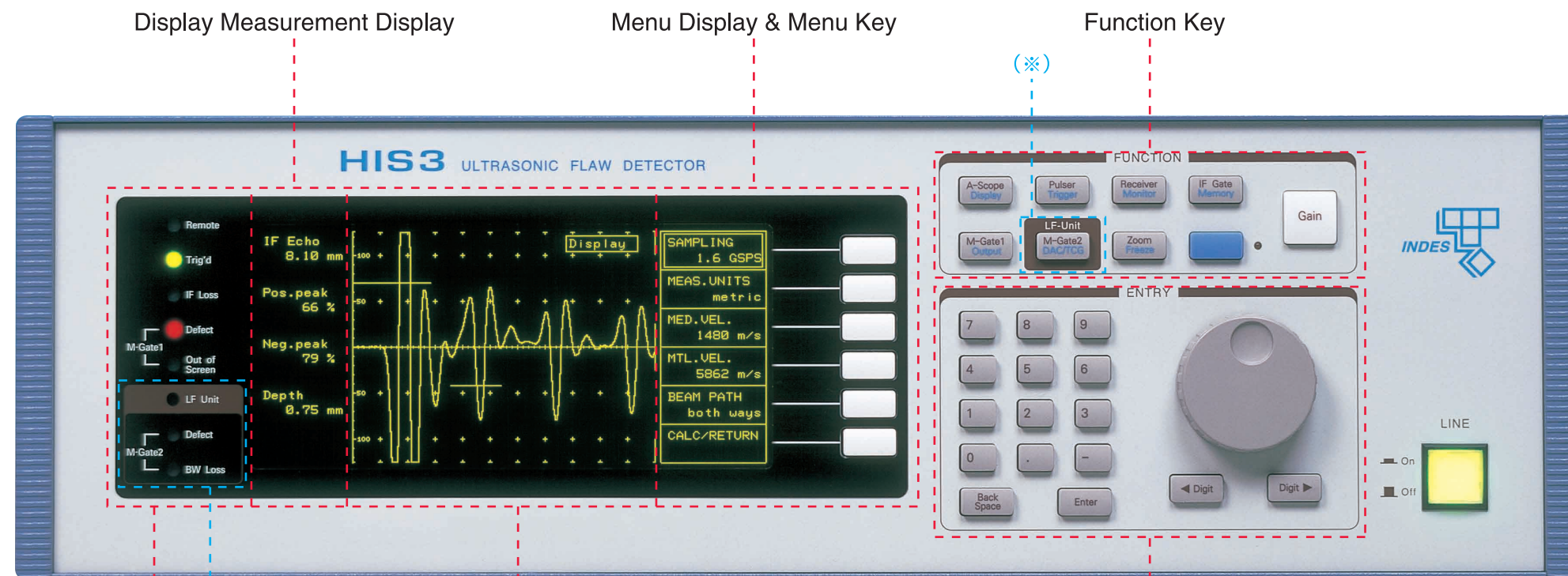
**KJTD Co., Ltd.**



# HIS3 HF HIS3 LF

## High-Speed Scanning System & In-Line Automatic Flaw Detecting System

The high-speed and wide band ultrasonic flaw detector, model HIS3 HF/LF is a standalone type detector that integrates all necessary flaw detecting functions. This detector is suitable for high-speed immersion detecting application.



Display Measurement Display

Menu Display & Menu Key

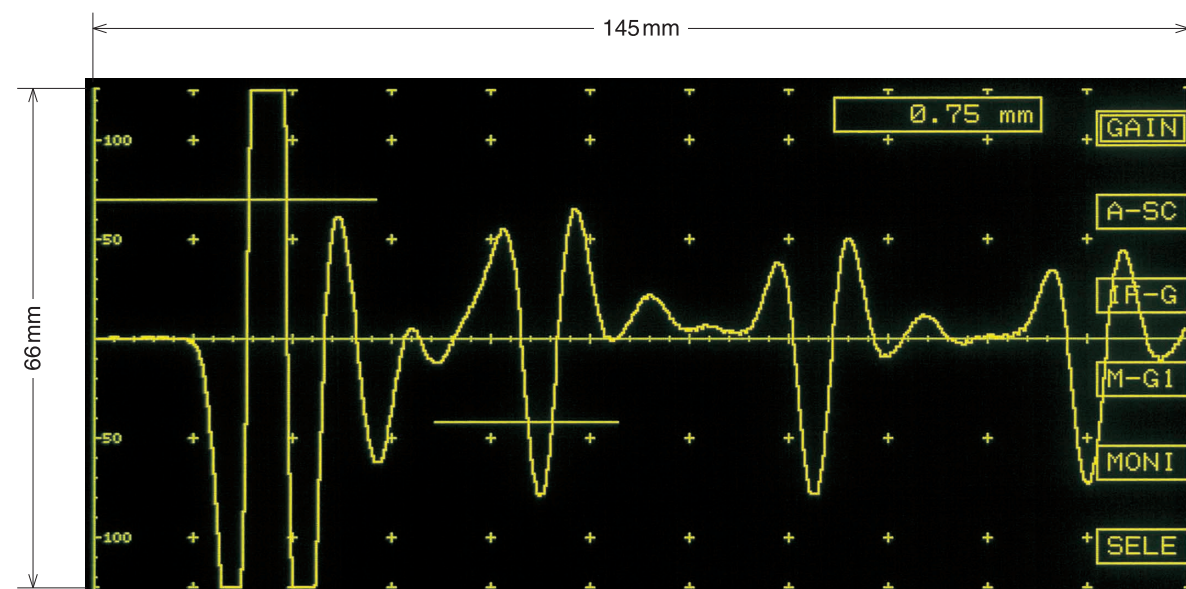
Function Key

Status Indicator LED

A-Scope Display

Input Key & Rotary Encoder

Picture is HIS3 HF  
(\*) Exclusive Use LF Version



Zoom-In Display on Full Screen



Top : Digital Board  
Middle : Analog Board  
Bottom : Remote Pulser/Pre-Amplifier

### Features

- Exchangeable Analog & Digital Plug-In Modules (HF/LF)
  - HF - High Frequency High Resolution  
10 - 125MHz Probe
  - LF - Multi-Use High Performance  
1 - 15MHz Probe
- High Resolution EL Display  
552 × 256 Pixel 96dpi
- Max. P.R.F. 10kHz
- 1ns Pulse & 1 - 300MHz Receiver (HF)  
500V Pulse & 0.25 - 25.0MHz (LF)
- Remote Pulser/Pre-Amplifier to minimize waveform distortion
  - HF - Standard
  - LF - Option
- The Digitizer that captures every high frequency echo peak (HF)
  - One-Shot 1.6GSPS
  - Long Memory 64KB
  - Real time 200MSPS Digitizer with no memory limits (LF)
- Monitor gate that captures positive & negative peak amplitude of RF echo (HF)
  - Resolution 5ns
  - Two Monitor Gate that is suitable for back wall echo tracking (LF)
- Multi-Point DAC/TCG (LF)
- Trigger input/output terminals that can form a multi-channel system with 2 and up
- High-speed 16bit parallel interface & RS-232C interface
- Changeable power voltage with no preset time (100V, 200V)
- Standard 19" rack mounting snap is installed where carrying handle can be attached for easy traveling!