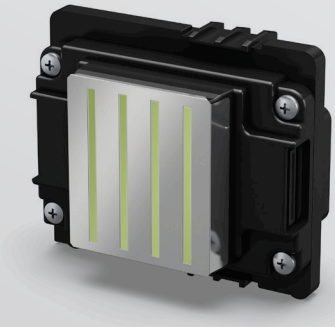
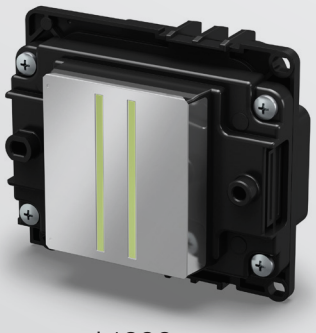
EPSON
EXCEED YOUR VISION



I 3200



I 1600

Data Sheet

Inkjet Head I Series

PRECISIONCORE

1. PrecisionCore Technology

a. MEMS manufacturing and thin film piezo element can realize high precision and high density (600 npi/2 rows of nozzles). Contributes to compact, high speed, high quality, and high image quality.

b. Precision made of Epson unique MEMS nozzles and an ink flow path ensure the perfectly round ink droplets are placed accurately and consistently.

2. Support for grey scale

Epson's unique Variable Sized Droplet Technology (VSDT) delivers smooth gradation by freely control to eject the droplet volume.

3. High resolution

Ink ejection of up to 4 colours realize with high resolution (600 dpi/colour). In addition to the I3200, I1600 has also been added to the lineup in order to meet the various customer needs.

4. High durability

PrecisionCore print head has proven high durability and extended service life by Epson's industrial printers.

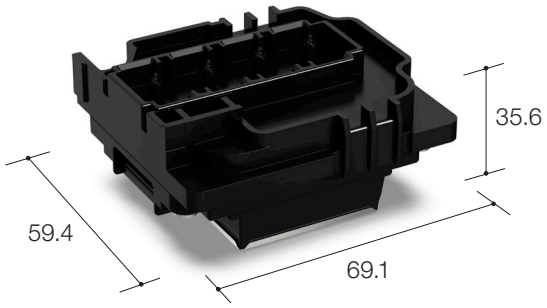
■ Product Specifications

Product name		I3200(4)-U1	I3200(4)-E1	I3200(4)-A1	I1600-U1	I1600-E1	I1600-A1
Ink type		UV	Eco Solvent	Aqueous	UV	Eco Solvent	Aqueous
Type		PrecisionCore MicroTFP printhead					
Width x Depth x Height		69.1 x 59.4 x 35.6 mm					
Weight		82 g			80 g		
Number of nozzle		3200			1600		
Nozzle pitch/nozzle row		1/300 inch					
Nozzle rows		8 rows			4 rows		
Nozzle Resolution		300 npi/row 600 npi/2 rows					
Max. number of colour inks		4 colours					
Effective print width		33.8 mm (1.33 inches)					
Droplet ejection performance	Binary	5 pl at 43.2 kHz	6 pl at 43.2 kHz		5 pl at 43.2 kHz	6 pl at 43.2 kHz	
	3 levels grey scale	6, 12.5 pl at 21.6 kHz	6.3, 12.3 pl at 21.6 kHz		6, 12.5 pl at 21.6 kHz	6.3, 12.3 pl at 21.6 kHz	
	4 levels grey scale	3.8, 6.2, 9.3 pl at 21.6 kHz	3.8, 5.5, 8.7 pl at 21.6 kHz	3.8, 6.1, 9.4 pl at 21.6 kHz	3.8, 6.2, 9.3 pl at 21.6 kHz	3.8, 5.5, 8.7 pl at 21.6 kHz	3.8, 6.1, 9.4 pl at 21.6 kHz
Viscosity range		5-7 mPa·s	3-4 mPa·s		5-7 mPa·s	3-4 mPa·s	
Positioning Mechanism		Reference hole					

※ Combining the various grey scale and the droplet size can be realized by Epson unique waveform design.

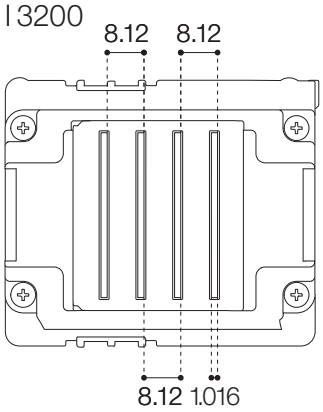
■ Product size (mm)

I3200 / I1600

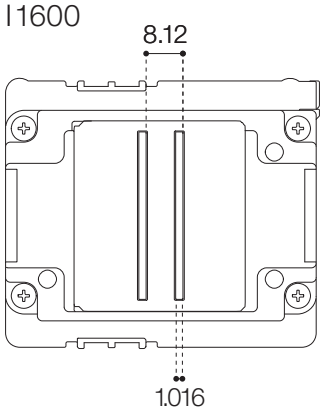


■ Nozzle (mm)

I3200



I1600



■ External dimensions (mm)

I3200 / I1600