



FC80

Fixed Mount Scanner



Compact form factor | Outstanding DPM reading performance | Ethernet & RS232 Interfaces

Compact and Industrial Design

The FC80 features a compact, industrial-grade design that fits seamlessly into space-constrained environments. Its small footprint makes it ideal for fixed installations on production lines, automation systems, and warehouse stations—maximizing workspace efficiency without compromising performance.

Advanced DPM and Barcode Reading Performance

Equipped with a high-resolution imaging engine, the FC80 delivers exceptional decoding performance for both 1D and 2D barcodes, including Direct Part Marks (DPM). Unlike traditional barcode labels, DPM codes are etched, peened, or printed directly onto parts, providing permanent and durable identification. Even on metal, plastic, or curved surfaces, it reads low-contrast and textured codes with precision. Enhanced decoding algorithms adapt to variations in lighting and surface conditions, ensuring fast and reliable data capture in demanding industrial environments.

Flexible Connectivity with Ethernet & RS232

With built-in Ethernet and RS232 interfaces, the FC80 provides versatile connectivity for seamless integration into industrial and automation systems. This flexibility enables easy deployment across diverse setups, ensuring stable data transmission and efficient communication between devices.

Hands-Free and On-Demand Scanning

Experience exceptional flexibility with hands-free presentation mode and precise trigger-activated scanning. Designed to adapt instantly to any workflow, the FC80 streamlines operations for effortless continuous use or accurate on-demand reads—enhancing productivity, efficiency, and user comfort in every environment.

Engineered for Industrial Toughness

Built to withstand the rigors of industrial use, the FC80 features an IP54-rated housing that protects against dust and moisture. It endures multiple drops from 1.2 meters, providing long-lasting durability and minimizing maintenance downtime in tough work environments.

Features

- Compact form factor for easy installation in tight spaces
- Outstanding DPM decoding performance—reads both 1D and 2D barcodes with high accuracy
- Ethernet and RS232 interfaces for flexible connectivity options
- Trigger and presentation modes for hands-free or on-demand scanning
- IP54-rated housing protects against dust and moisture for reliable operation
- Withstands multiple drops from 1.2 meters, ensuring consistent performance in industrial settings



Optical & Performance

Sensor	1920 x 800 pixels
Aiming Element	650nm, Red Laser
Illumination	Red LED
Ambient Light	0 to 100,000Lux
Scan Rate	60 fps
Field of View	Horizontal – 52°, Vertical – 23°
Depth of Field	SYMBOLGY: Near // Far
	Code39 4mil: 6cm ~ 16cm
	Code39 13mil: 6cm ~ 46.5cm
	Code128 5mil: 5.5cm ~ 26.5cm
	Code128 15mil: 5cm ~ 68cm
	QR 7mil: 6.5cm ~ 13cm
	QR 15mil: 5.5cm ~ 37cm
	DM 10mil: 5.5cm ~ 27.5cm
	DM 20mil: 5cm ~ 56cm

Communication

Host Interface supported	Serial Port: DB9 RS232 Ethernet: TCP/IP, Profinet, Modbus TCP, Ethernet/IP
--------------------------	--

Mechanical

Dimension	45.4 x 47 x 29.87 mm
Weight	133g
Trigger Switch Life	2,000,000 times

Electrical

Operation Voltage	24V DC ±10%
Current Consumption	Standby: 200mA (typical) Working : 700mA (typical)
Indicator	3 LEDs: Power, Transmit, Comm

Symbologies

1D	Codabar, Code 39, Code 32 Pharmaceutical (PARAF), Interleaved 2 of 5, NEC 2 of 5, Code 93, Straight 2 of 5 Industrial, Straight 2 of 5 IATA, Matrix 2 of 5, Code 11, Code 128, GS1-128, UPC-A, UPC-E, EAN/JAN-8, EAN/JAN-13, MSI, GS1 Data Bar Omnidirectional, GS1 Data Bar Limited, GS1 DataBar Expanded, China Post (Hong Kong 2 of 5), Korea Post
2D	Code block A, Code block F, PDF 417, Micro PDF 417, GS1 Composite Codes, QR Code, Data Matrix, MaxiCode, Aztec, HANXIN
DPM	QR Code, Data Matrix

Environmental

ESD Protection	±8 KV air discharge ±4 KV conductive discharge
Operating Temperature	-10°C to +50°C
Storage Temperature	-20°C to +70°C
Relative Humidity	5% to 85% (Non-condensing)
IP Rating	IP54

Regulatory Approvals

FCC, CE, VCCI, BSMI



Headquarters

Taipei, Taiwan
<http://www.ute.com> e-mail: info@hq.ute.com

unitech America

Los Angeles
<http://us.ute.com> e-mail: info@us.ute.com
<http://can.ute.com> info@can.ute.com
 Mexico
<http://latin.ute.com> e-mail: info@latin.ute.com

unitech Asia Pacific & Middle East

Taipei
<http://apac.ute.com> info@apac.ute.com / info@india.ute.com
<http://mideast.ute.com> info@mideast.ute.com

unitech Europe

Tilburg / Netherlands
<http://eu.ute.com> e-mail: info@eu.ute.com

unitech Japan

Tokyo
<http://jp.ute.com> e-mail: info@jp.ute.com

unitech Greater China

Beijing, Shanghai, Guang Zhou, Xiamen
<http://cn.ute.com> info@cn.ute.com
 Taipei <http://tw.ute.com> info@tw.ute.com

