

# ZKTeco Fingerprint Scanners Hardware Selection Guide

Model Name	SLK20M	SLK20R	ZK9500	ZK4500
				
Hardware				
<b>Prism Material</b>	Optical glass	Optical glass	Optical glass	Optical glass
<b>CPU</b>	280MHz	280MHz	280MHz	120MHz DSP
<b>Flash</b>	32 MB	32 MB	16/32MB	16 KB
<b>SDRAM</b>	16 MB	16 MB	16 MB	320 KB
<b>SoC</b>	RTOS	RTOS	RTOS	RTOS
<b>CMOS</b>	2 Million pixels CMOS	2 Million pixels CMOS	2 Million pixels CMOS	0.3 Million pixels CMOS
<b>Encryption IC</b>	YES,Pending for encryption firmware	YES,Pending for encryption firmware	YES	NO
<b>Water Splash</b>	no damage,make sure it can work	no damage,make sure it can work	no damage,make sure it can work	no damage,make sure it can work
<b>Power Consumption</b>	5V:200mA scanning 5V:60mA idle(waiting for finger)	5V:200mA scanning 5V:60mA idle(waiting for finger)	5V:200mA scanning 5V:60mA idle(waiting for finger)	5V:200mA Scanning 5V:90mA idle (waiting for finger)
<b>Power Voltage</b>	5V/3.3V(TTL-RS232)	5V	5V	5V
<b>Power Current</b>	200mA	200mA	200mA	300mA
<b>Auto Switch IR</b>	YES	YES	YES	NO
<b>Interface Type</b>	Molex 51021-0700(7 pin; 1.25 mm)	USB Type A	USB Type A	USB Type A
<b>Dimension(L*W*H)</b>	36.2 * 44.2 * 15.85 mm	49 * 44 * 20.1 mm	75.5 * 53.2 * 19 mm	65.5 * 48 * 79.8 mm
Image				
<b>Sunlight Operation</b>	YES,dark field and automatic gain/exposure	YES,dark field and automatic gain/exposure	YES,dark field and automatic gain/exposure	NO,white filed,general sunlight
<b>Dry, moist, or rough fingerprints</b>	Work well	Work well	Work well	General level
<b>Illumination LED</b>	White	White	Green	Green
<b>Image Resolution</b>	500 - 1000 dpi	500 - 1000 dpi	500 dpi	500 dpi
<b>Effective Collecting Area</b>	15.24 * 20.32 mm (FAP20)	15.24 * 20.32 mm (FAP20)	15.24 * 20.32 mm (FAP20)	13.24 * 15.7 mm
<b>Collecting Area</b>	16.5 * 23 mm	16.5 * 23 mm	16.5 * 23 mm	15.4 * 18 mm
<b>Image Size</b>	300 * 400 pixel(FAP20 )	300 * 400 pixel(FAP20 )	300 * 400 pixel(FAP20 )	280 * 360 pixel
<b>Image Format</b>	RAW,BMP,JPG	RAW,BMP,JPG	BMP	BMP
<b>Live Detection</b>	YES	YES	NO	NO
<b>PIV</b>	YES	YES	NO	NO
Firmware				
<b>Gray Level</b>	256	256	256	256
<b>Communication</b>	UART(115200bps/TTL3.3V) / USB 2.0	USB 2.0/USB1.1	USB 2.0/USB1.1	USB 2.0/USB1.1/USB1.0
<b>LED Indicator</b>	Red,Green,White	Red,Green,White	Red,Green	Red,Green
<b>Template Size</b>	1-4 KB (ZKFinger V10.0); 1568 B (ISO 19794-2)	1-4 KB (ZKFinger V10.0); 1568 B (ISO 19794-2)	<2KB, (ZKFinger V10.0); 1568 B (ISO 19794-2)	<2KB, (ZKFinger V10.0); 1568 B (ISO 19794-2)
<b>Template</b>	ZKFinger V10.0; ISO19794-2;ANSI 378	ZKFinger V10.0; ISO19794-2;ANSI 379	ZKFinger V10.0	ZKFinger V10.0
<b>ISO/ANSI Support</b>	ISO-19794-2/4 ANSI378	ISO-19794-2/4 ANSI378	NA	NA
Other				
<b>Certifications</b>	FCC,CE,RoHS	FCC,CE,RoHS	FCC,CE,RoHS	FCC,CE,RoHS
<b>Weight</b>	0.032kg	0.12kg	0.1kg	0.25kg
<b>Operating Environment</b>	-20 °C ~ +50 °C; 90% r.h.	-20 °C ~ +50 °C; 90% r.h.	-20 °C ~ +50 °C; 90% r.h.	-20 °C ~ +50 °C; 90% r.h.