Desktop Scanner

Omni-directional Laser Scanner

- Omni-directional scanning pattern by maximizing productivity
- Unique STAR code reconstruction technique allows easy reading of truncated, damaged and substandard bar codes
- Automatic sleep and wake-up mode which saves power and improves life time
- Support wall-mount hanging for easy installation
- Anti-scraping protection glass window
- Touch control for volume adjustment
- Durable characteristic with IP42 rating-LIBRA Series



Specification	NOVA N-4060	NOVA N-4070	NOVA N-4080i	PAVO P-3080i
Light Source	650± 10nm VLD		Visible red light 625nm LED	
Depth of Field	Up to 250 mm@13 mil/0.33mm, PCS 90%		Up to 230 mm@20 mil/Code 39, PCS90%	
Scan Pattern	7 directional scan fields, 24 lines		Horizontal -40°, Vertical -25°	
Resolution	5mil / 0.127mm		1D 3mil/0.076mm, 2D 5mil/0.127mm	
Indicator	Beeper and LED (Standy Blue, Good read Orange)		Beeper and LED (Standy Blue, Good read Orange)	
Print contrast ratio	30%		30%	
Interface	RS232, USB(USB HID, Virtual COM port), Keyboard Wedge, Power USB		RS-232, USB (HID, Virtual Com port)	
EAS	YES		YES	
Ambient light	Up to 6,400 Lux	Up to 7,000 Lux	100,000 Lux Max. (Sunlight)	
Input Voltage	DC + 12V @1.5A		DC+5V@2A	
Symbologies	GS1		GS1	

Small Footprint Presentation Scanner

- STAR code reconstruction technique allows easy reading of truncated, damaged and substandard bar codes
- Durable characteristic with IP42 rating and 1m drop resistance(with cable)
- Adjustable scan head can be tilted forward and backward within 107° range for best accommodation
- Read the most common 1D, 2D, composite and stacked codes, reduce your investment cost
- Boost customer services with good ability to scan virtually mobile bar code on various types of display
- With the most compact footprint can fit in the most space constrained areas
- Compact size omni-directional laser bar code scanner
- Automatic sleep and wake-up mode which saves power and improves life time
- With tall and short stand as option, its compact footprint can fit in the most space constrained areas
- Read the most common 1D, 2D, composite and stacked codes, reduce your investment cost
- Optimized design for built-in and OEM applications
- With the most compact footprint can fit in the most space constrained areas



Specification	LIBRA L-7050	LIBRA L-7080i	MICA M-9030 with Stand	MICA M-9080i with Stand
Light Source	650± 10nm VLD	625± 5nm Red LED	650± 10nm VLD	625± 5nm Red LED
Depth of Field	Up to 230 mm@13mil/0.33mm, PCS 90%	Up to 230mm@13 mil/0.33mm, PCS90%	Up to 230 mm@13 mil/0.33mm, PCS 90%	Up to 230mm@13 mil/0.33mm, PCS90%
Scan Pattern	6 directional scan fields 24 lines scan pattern	Horizontal -40°, Vertical -25°	6 directional scan fields 24 lines scan pattern	Horizontal -40°, Vertical -25°
Scan Rate	2,000 scans per second ± 5%	120 scans per second in 1D mode , 60 images per second in 2D mode	2,000 scans per second ± 5%	120 scans per second in 1D mode , 60 images per second in 2D mode
Resolution	5mil / 0.127mm	1D 4mil/0.1mm, 2D 5mil/0.127mm	5mil / 0.127mm	1D 4mil/0.1mm, 2D 5mil/0.127mm
Print contrast ratio	30%	30%	30%	30%
Indicator	Beep and LED (Good read Green, Wireless with 3 color-LED)		Beeper and LED (Stand by Red, Good read Green)	
Ambient light	Up to 4,800 Lux	Up to 100,000 Lux	Up to 4,800 Lux	Up to 100,000 Lux
Interface	RS232, USB (USB HID, Virtual COM port), Keyboard Wedge, Powered USB (Option)	RS232, USB(USB HID,Virtual COM port)	RS232, USB (USB HID, Virtual COM port), Keyboard Wedge, Powered USB (Option)	RS232, USB (USB HID, Virtual COM port)
Power	DC +5V @2A			
Symbologies	GS1		GS1	

Module

Module

- MCR14 is a miniature size and yet long-range CCD bar code scanning module with its cutting-edge smart detection technique design comes with up to 500 scans per second scan speed and up to 500mm reading distance
- The MCR Series Scan Module is a perfect choice for integration into data terminals and other small devices



Specification	MCR12	MCR14	MIR3
	632nm Red LED	632nm Red LED	632nm Red LED
Light Source	Up to 240mm@20mil/0.5mm, PCS90%	Up to 500mm@20mil/0.5mm, PCS90%	350mm@20mil/0.5mm, PCS90%
Depth of Field	100 scans per second ±10%	Smart detection, up to 500 scans per second	60 images per second
Scan Rate	Horizontal - 45°	Horizontal - 45°	Horizontal - 40°, Vertical - 25°
Scan Pattern Resolution	5mil/0.127mm@PCS90%	4mil/0.1mm@PCS90%	4mil/0.1mm@PCS90% Code39 10mil/.26mm@PCS90% QRCode
Print contrast ratio	30%	30%	45%
Indicator	Beep	Beep	Beep
Interface	PS2/RS232/USB	UART/USB (MCR14 only) RS232/USB/Keyboard Wedge (MCR14 with Test board)	RS232
	44.15 x 20 x 31.95mm	20 x 11.5 x 25mm	76.9 x 22.19 x 40.7mm
Dimensions (WxHxL)		DC +5V ±5%	
Power			
Symbologies	GS1	GS1	GS1

Magnetic/Barcode Slot Readers/Pen Scanners



Specification	MR300/800	MMR
Magnetic Card	ISO 7810-7813 standards and JIS8	
Interface	TTL/Keyboard Wedge/RS232/USB	
Life Cycle	1,000,000 passes	
Tracks T1&T2&T3	Decording Density T1/T2/T3: 210/75/210 BPI Capacity T1/T2/T3: 79/40/107 Characters	
Scan Speed	100-1000mm per second (3.9-39 inch per second)	



Specification	BR300/800	MBR
Light Source	RED LED/ IR	
Interface	TTL/Keyboard Wedge/RS232/USB	
Resolution	0.15mm@ PCS 0.9	
Readable Barcodes	All UPC/EAN/JAN, EAN128 Code Code 39, Code 128, CODABAR/NW7, Interleave 25	
Scan Speed	100-1000mm per second (3.9-39 inch per second)	



Specification	WD100	WD200	WD300
Light Source	Visible Red Light 660nm LED		
Sensor	Photo Diode		
Scan Speed	50-500mm per second		
Depth of Field	Contact Type		
Resolution	5mil/0.127mm@PCS90%		
Ambient Light	1500 Lux Max (Sunlight)		
Symbologies	GS1		

RFID

Active RFID Reader Overview

Champtek's Active RFID Readers feature:

- Advanced two-layer anti-collision technique
- Support Star and Mesh topology
- Smart channel clear detection
- User configurable setting
- Frequency hopping
- High throughput
- Data encryption

For particular features, refer to the table.





RFR100 TCP/IP Reader	RFR400 Router
4.6"x3.1"x1.1" (117x79x28 mm)	4.6"x3.1"x1.1"(117x79x28 mm)
User configurable identification range (1m to 90m)	Alternative auto-organized and self-assigned mode
Complete command set and API support	Load balance
Identifying up to 160 tags per second	Plug and play

Active RFID Tag Overview

Champtek's Active RFID tags feature:

- Advanced two-layer anti-collision technique
- User configurable transmission period
- User configurable transmission power
- Low-battery detection
- Long battery life

For particular features, refer to the table.

Asset Tags







RFT100 (Magnetic Reed Type)	RFT102 (Standard Type)	RFT106 (Motion Type)
2.6"x1.1"x0.3"(66x28x8mm)	2.6"x1.1"x0.3"(66x28x8mm)	2.6"x1.1"x0.3"(66x28x8mm)
Tamper detection	Tamper detection	Tamper detection
Magnetic reed detection		Motion detection

Badge Tag

Sensor Tags





RFT200 (Standard Type)	RFT300 (Humidity Type)	RFT301 (Temperature Type)
2.7"x2.3"x0.7"(74x58x16mm)	2.7"x2.3"x0.7"(74x58x16mm)	2.7"x2.3"x0.7"(74x58x16mm)
Panic button	Humidity detection	Temperature detection
Clock-in button	Temperature detection	8K Bytes EEPROM memory
Water-resistance		Water-resistance

Wristband Tags





RFT500 (Standard Type)	RFT501 (Motion Type)
1.9"x1.2"x0.6"(48x30x15mm)	1.9"x1.2"x0.6"(48x30x15mm)
Panic button	Panic button
Temperature detection	Motion detection
Take-off detection	Take-off detection
Water-resistance	Water-resistance

CHAMPTEK®
We value your ID's

SCANTECH ID



■ *Leading Auto-ID Total Solution Provider*

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CHAMPTEK®
We value your ID's

SCANTECH ID

http://www.champtek.com/ *2015 version*

Brand Story

Champtek was founded in 1985 with specialized in Auto Identification industry. The company is marketing with the brand of 'Champtek' in Europe, America and Asia and has been the top specialized manufacturer in the world.

In order to develop the market in Europe and expend and optimize the product lines, Champtek merged the global top 5 omni-directional scanner manufacturer, Scantech ID, in 2007 and has been the well-known manufacturer in Europe.

Champtek currently owns 2 brands, 'Champtek and 'Scantech ID'. As the variation of product on attribute and appearance, differentiates the market to meet the variety of customers' needs and provide the proactive solutions for customers.

The 'V' in the CHAMPTEK

The red 'V' in the middle of M of CHAMPTEK is from the word, VALUE, which indicates we respect the customer's value and the community's value as our first mission with the passion, the red. We commit we dedicate our value. We, value your ID's!

Product Portfolio

Champtek currently operates under two brand names, 'Champtek' and 'Scantech ID', and provides the total solution to meet the variety of customers' needs.



Scan Kiosk/ Price Checker

- Linux OS/ Android
- 10.1" Capacitive type
- Built-in Web Server for user friendly access to remotely configure, diagnose, monitor and troubleshoot devices
- Self-service Scan Kiosk with touch screen and media display function
- Omni Directional Laser Scanner or 2D imager selectable
- Built-in Web Server for user friendly access to remotely configure, diagnose, monitor and troubleshoot devices
- Entry level, smart and attractive price checker
- Remote management
- User friendly software tools for easy integration of the SG15 Plus



System Architecture	SK100	SK50	SK40	SG15 Plus
Operating Platform	Linux 3.0 Kernel or Android	Linux 2.6 Kernel or WinCE 6.0		Real time OS
Memory Flash	4GB expandable with USB flash drive and SD card	256MB expandable with USB flash drive and SD card		64Mb
Memory RAM	1GB	128MB		32MB RAM
Power supply voltage	DC 12V±10% / 1.5A	DC 12V± 10% / 1.5A		DC +5V, 2.0A
Dimensions (WxHxL)	278 x 240.26 x 86.61 mm	193 x 176 x 85mm		182 x 131 x 95mm

Output Media				
Display Size	10.1" diagonal	5.7" diagonal	4.3" diagonal	72.0mm x 40.0mm
Brightness	500 nits	400 nits	350 nits	N/A
Resolution	1280 x 3(RGB) x 800	(640 x 480 pixels (65,535 colours)	480 x 272 pixels (65,535 colours)	128 x 64 Dots
Touch Screen	Capacitive type	Resistive type	N/A	N/A
Graphics Supported	PNG, JPEG, GIF, BMP			GIF
Audio Supported	WAV, WMA, MP3			WAV
Video Supported	MPEG-4, H.264			N/A
Audio Ports	High Definition Stereo (16-bit PCM 44.1 KHz)			N/A
Speakers	High Quality loudspeakers for superior audio performance			Speaker
Headphone	3.5 mm standard jack	3.5 mm standard jack	N/A	N/A

Data Ports		
	SD card x 1, USB x 4, RS232x1, LAN port x 1, Power Over Ethernet (Optional)	USB x 1, LAN Port x 1 , RS232 x 1, Power Over Ethernet (Optional)

Network Interface		
Wired LAN	Ethernet: 100MB Base-TX/10MB Base-T (802.3)	
Wireless LAN	802.11 B/G/N 2.4 GHz(Optional)	802.11 a/b/g/n 2.4GHz or 802.11 a/b/g/n 5GHz(optional)
Encryption protocols	WPA, PSK and WPA Enterprise security	WAP encryption (WPA 1, WAP-2 Optional)

Data Inputs			
Scanner possibilities	2D imager scanner	1D Omni Directional Laser Scanner / 2D Imager scanner Selectable	1D Omni Directional Laser / CCD or 2D Imager Scanner selectable
Scanner adjustable	N/A	Can be adjusted from 10° vertical face to downward 45° by locked with steps of 5°	N/A
RFID Reader (Optional)	ISO 18092 (NFCIP-1) initiator ISO 18092 (NFCIP-1) target (only active mode) ISO 15692 reader ISO 14443 A and B reader Felica™ reader		N/A

Software and Applications			
	Price check and promotion application, built-in web configuration, management and remote package upgrade	Price Check Application, Built-in web configuration, management and remote package upgrade	Easy to configure and upgrade through Configuration tool or Internet browser

Pocket Scanner

- Stylish, lightweight, pocket-sized, wireless design
- Supports all 1D barcode data, including GS1 data barcodes, up to 4 mil resolution
- Bright, easy-to-read OLED display
- Easy control with 3 scrolling buttons
- Windows, Android and Apple compatible
- Reliable design that meets the 1.5 meter drop threshold, IP54-rated
- Bluetooth V2.1+EDR, Class 2, & HID/SPP support
- SDK provided for AP development





Specification	MB200C	MB300C
Flash Memory	8M bytes user data that can save over 100,000 items	
Display Size	Without display	0.96" OLED 128x64 dots Monochrome
Wireless Standard	Bluetooth V2.1 Standard, support both SPP and HID profiles	
Indicator	1.LED x 1 2.Beeper x 1 3.Vibration motor x1	
Battery	Lithium-Polymer (3.7V DC,550mAh)	
Battery Charging	via Micro USB connector, recharge time is approx. 2.5 hours	
Dimensions (WxHxL)	41 x 23.4 x 90mm	
Weight	Designed to be approx. 40g	
Available color	Black cover and dark gray bottom cases	
Sealing	IP54 sealing protection	
Drop Resistance	59.05 inches(150cm)	

Fixed Mount

- Compact and lightweight fixed mount scanner ideal for embedded scanning solutions such as various KIOSKs and self-service terminals, but also perfect for industrial applications such as production line scanning.
- FS700(CCD), FI710(2D), FS310(CCD), FI310(2D)









Specification	FS700	FI710	FS310	FI310
Light Source	632nm Red LED	625nm Red LED	632nm Red LED	625nm Red LED
Depth of Field	Up to 500mm/0.5mm/20mil, PCS90%, Code39	Up to 600mm/0.5mm, PCS90%	Up to 500mm/0.5mm/20mil, PCS90%,Code39	Up to 600mm/0.5mm, PCS90%
Scan Rate	Smart detection, up to 500 scans per second	Up to 120 scans per second in linear emulation and 60 images per second in 2D	Smart detection, up to 500 scans per second	Up to 120 scans per second in linear emulation and 60 images per second in 2D
Resolution	0.1mm/4mil@PCS90%	752 Horizontal x 480 Vertical pixels	0.1mm/4mil@PCS90%	752 Horizontal x 480 Vertical pixels
Print contrast ratio	30%	30%	30%	30%
Indicator	Beep and LED		Beep	
Interface	RS-232, USB(HID Virtual Com port)		PS2/RS232/USB	RS-232, USB (HID Virtual COM port)
Ambient light	Up to 100,000 Lux		Up to 100,000 Lux	Up to 100,000 Lux
Sealing	IP54		N/A	
Dimensions (WxHxL)	59.2 x 30.0 x 64.6 mm		56 x 28 x 69 mm	
Power	DC 5V ± 5%			

Gun-type Scanner

IP protection Sealed Gun-type Scanner.



- Rugged casing that supports IP54 sealing protection
- 4 in 1 Combo interface that changes interface by replacing cable
- Bluetooth V2.1 Class 1 technology, range up to 100m in open space
- Bluetooth supports HID and SPP profiles

Specification	SG700/BT	IG710/BT	LG710/BT
Light Source	632nm Red LED	625± 5nm Red LED	650 ± 10nm VLD
Depth of Field	500mm @ 20mil/ 0.5mm, PCS90%, Code39	500mm @ 20mil/ 0.5mm, PCS90%, Code39	300mm@20mil/0.5mm, PCS90%, Code39
Field of View	Horizontal - 45°	Horizontal -40°, Vertical-25°	Horizontal - 45°
Scan Rate	Smart detection, up to 500 scans per second	120 scans per second in 1D mode, 60 images per second in 2D mode	50 scans per second ±5%
Resolution	4mil/ 0.1mm @ PCS90%	752 (H) x 480 (V) pixels, 1D 4mil/0.1mm, 2D 5mil/0.127mm	5mil/0.127mm@PCS90%
Print contrast ratio	30%	25%	30%
Indicator	Beep and LED (wired Good read Green, Wireless with 3-color LED)		
Ambient light	Up to 100,000 Lux	Up to 100,000 Lux	Up to 5,000 Lux
Interface	RS232 / USB (HID or Virtual com port), Keyboard Wedge		
Power	DC +5V ± 5%		
Drop resistance	59.05 inches (150cm)	59.05 inches(150cm)	59.05 inches (150cm)

Wireless Characteristics

Wireless			
Wireless Standard	Bluetooth V2.1 Standard, support both SPP and HID profiles		
Battery type	Lithium-ion 3.7 V (2600mAh)		
Recharge Time	Approx. 5 hours		
Reads per charge	50,000 scans in continuous read	20,000 times in continuous read	50,000 times in continuos read
Radio Transmission Range	Class 1 up to 100m/328.08 ft. in line of open sight		

Symbologies

CCD Scanners

- High reading resolution up to 3 mil @ PCS90%
- Best cost effective barcode scanner
- Lightweight hand-held barcode scanner







Specification	SD700	SD120	SD320
Light Source	632nm Red LED		
Processor type	32bits		
Depth of Field	Contact to 100mm@20mil,PCS90%,Code39	Contact to 60mm@20mil/0.5mm,PCS90%	Contact to 50mm@20mil/0.5mm,PCS90%
Width of Field	90mm (80mm at window)	80mm (60mm at window)	90mm (80mm at window)
Scan Rate	200 scans per second ± 10%	120 scans per second ± 10%	
Resolution	3mil/ 0.076mm @ PCS90%	4mil/0.1mm@PCS90%	
Print contrast ratio	30%		
Dimensions (WxHxL)	75 x 82.85 x 171.31 mm	77.81 x 78.06 x 166.42 mm	90 x 56.2 x 173.5 mm
Indicator	Beep and LED (Good read Green)	Beep	Beep and LED (Good read Green)
Ambient light	Up to 20,000 Lux	Up to 5,000 Lux	
Interface	RS232, USB/USB HID, Virtual COM port), Keyboard Wedge		
Power	DC +5V ± 5%		
Drop resistance	47.24 inches (120cm)		

Symbologies

General Purpose Gun-type Scanner



- Brand new general purpose gun type handheld scanner
- 4 in 1 Combo interface that changes interface by replacing cable
- Bluetooth V2.1 Class 1 technology, range up to 100m in open space
- Bluetooth supports HID and SPP profiles

Specification	SG600/BT	LG610/BT	IG610/BT
Light Source	632nm Red LED	650 ± 10nm VLD	625± 5nm Red LED
Depth of Field	Up to 500mm @ 20mil/ 0.5mm, PCS90%, Code39	Up to 300mm@20mil/0.5mm, PCS90%, Code39	Up to 500mm @ 20mil/ 0.5mm, PCS90%, Code39
Field of View	Horizontal - 45°	Horizontal - 45°	Horizontal -40°, Vertical -25°
Scan Rate	Smart detection, up to 500 scans per second	50 scans per second ±5%	120 scans per second in 1D mode , 60 images per second in 2D mode
Resolution	4mil/ 0.1mm @ PCS90%	5mil/0.127mm@PCS90%	752 (H) x 480 (V) pixels, 1D 4mil/0.1mm, 2D 5mil/0.127mm
Print contrast ratio	30%	30%	25%
Indicator	Beep and LED (wired Good read Green, Wireless with 3-color LED)		
Ambient light	Up to 100,000 Lux	Up to 5,000 Lux	Up to 100,000 Lux
Interface	RS232 / USB (HID or Virtual com port), Keyboard Wedge		
Power	DC +5V ± 5%		DC +5V ± 5%
Drop resistance	59.05 inches (150cm)	59.05 inches(150cm)	59.05 inches (150cm)

Wireless Characteristics

Wireless Standard	Bluetooth V2.1 Standard, support both SPP and HID profiles		
Battery type	Lithium-ion 3.7 V (2600mAh)		
Charge Time	Approx. 5 hours	Approx. 5 hours	Approx. 5 hours
Scans per charge	50,000 times in continuous read	50,000 times in continuous read	20,000 times in continuous read
Radio Transmission Range	Up to 100m/328.08 ft. in line of open sight		

Symbologies

Stylish VEGA Gun-type Scanner



- Most modern, stylish and ergonomic hand held scanner for every point of sale environment
- VEGA awarded include red dot, iF product design award, Taiwan Excellence award and Japan Good Design award
- V-1010(CCD)/V-1020(2D) and V-1030(Single Laser Line)

Specification	VEGA V-1010/ BT	VEGA V-1020/ BT	VEGA V-1030/ BT
Light Source	632nm Red LED	650± 5nm Red LED	650 ± 10nm VLD
Depth of Field	Up to 500mm @ 20mil/ 0.5mm, PCS90%, Code39	Up to 440mm@20mil/0.5mm, PCS90%, Code39	Up to 300mm@20mil/0.5mm, PCS90%, Code39
Field of View	Horizontal - 45°	Horizontal - 38.9°, Vertical - 25.4°	Horizontal - 45°
Scan Rate	Smart detection, up to 500scans per second	200 scans per second in 1D mode , 56 images per second in 2D mode	50 scans per second ±5%
Resolution	4mil/ 0.1mm @ PCS90%, Code39	752(H) x 480(V) pixels,5mil@Code39	5mil/0.127mm@PCS90%
Print contrast ratio	30%	25%	30%
Indicator	Beep and LED (wired Good read Green, Wireless with 3 color-LED)		
Ambient light	Up to 100,000 Lux	Up to 100,000 Lux	Up to 5,000 Lux
Interface	RS232 / USB (HID or Virtual com port), Keyboard Wedge		
Power	DC +5V ± 5%		
Drop resistance	47.24 inches (120cm)		

Wireless Characteristics

Wireless Standard	Bluetooth V2.1 Standard, support both SPP and HID profiles		
Battery type	Lithium-ion 3.7 V (1400 mAh)		
Charge Time	Approx. 4 hours	Approx. 4 hours	Approx. 4 hours
Reads per charge	30,000 times in continuous read	10,000 times in continuous read	30,000 times in continuous read
Radio Transmission Range	Up to 100m/328.08 ft. in line of open sight		

Symbologies