



National Authorized Hi-Tech Manufacturer

GMC Certificate



ISO Certificate

0 0 0

CE Certificate

Company Profile

Founded in 2010, we Sinowon Innovation Metrology Manufacture Limited is National Authorized Hi-Tech Manufacturer (Certificate No.: GR201544000821), ISO9001:2015 Certified company, GuangDong Province Enterprise of Observing Contract and Valuing Credit, Shenzhen Qianhai Equity Trading Center(SEC Registration Number:666354).

So far as founded in 2010 years, Sinowon always consider customer as the starting point, manage corporation with motto "Satisfaction, Innovation, Norm, Obligation, Worth, Openness, Nimble" .Constantly improve the management system, increase technology research and development, strengthen the company's ability to integrate production, dedicated to provide users with high-quality testing equipment and one-stop pre-sale, sale and after-sales service.

SINOWON is mainly produce, develop, integrate and sell measuring data software system, optical inspection instrument such as One Key Instant Vision Measuring System, Fully Auto Video Measuring System, Tool Microscope, Video Measuring Microscope and hardness tester such as Automatically Vickers Hardness Tester, Rockwell Hardness Tester, Brinell Hardness Tester, Micro Hardness Tester, Portable Ultrasonic Hardness Tester, Leeb Hardness Tester, etc and some other accessory products. And all of our products have passed The CE EU certification and widely used in metal, plastics, electronics, semiconductors, home appliances, telecommunications, automotive, aviation, aerospace and other industrial laboratories, production workshops, assembly line for quality control.

From the date of establishment, SINOWON is based on the Metrology industry, focused on customer and be a striver for committing to make measurement more accurate and uncomplicated and supply high cost-performance products and service for customers.

We warmly welcome you to visit our headquarter in Free Experience Center, and looking forward to further essence from you.

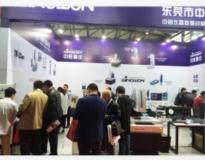
Sinowon is Committed to Make Measurement More Accurate and Uncomplicated!



Intermach Metal Processing Machinery Fair



DMP Tooling and Machining Fair



China CNC Machine Tool Fair



SIMM Machinery Fair



ASEAN International Machine Tool Fair



Control Stuttgart Quality Control Fair









High Accuracy Excellent Quality Long Using Life

Ø300mm Digital Vertical Profile Projector







- The lifting system adopts cross roller rail and precision screw drive,
 which makes lifting drive more comfortable and stable;
- With coating process reflector, clearer image and great dustproof;
- Adjustable contour and surface illumination, to meet with difference workpiece demand;
- Imported high light and long using life LED illumination, to ensure precision measurement demand;
- High resolution optical system with clear image and magnification error is less than 0.08%;
- · Powerful Bi-axial fan cooling system, highly increase using life;
- Powerful and colorful DRO DP400, realized fast and accurate 2D
 Measurement:
- Built-in Mini-printer, can print and save data;
- With standard 10X objective, optional 20X,50X objective, rotary table, foot switch, clamp, etc.

Partial Display



Specifications

| Product Name | Digital Vertical Profile Projector | | | |
|-------------------------|--|-------------------------|--|--|
| Reverse Image | VP300-1510 (#511-330) | VP300-2010 (#511-340) | | |
| Obverse Image | VP300-1510Z(#511-330Z) | VP300-2010Z (#511-340Z) | | |
| Metal Stage Size | 258x308mm | 258x358mm | | |
| Glass Stage Size | 148x206mm | 148x256mm | | |
| Stage Travel | 150x100mm | 200x100mm | | |
| Product Dimension | 988x563x1224mm | 988x563x1224mm | | |
| Packing Dimension | 1200x800x1580mm | 1200x800x1580mm | | |
| Gross/Net Weight | 210/165kg | 220/170kg | | |
| Focusing | 90mm | | | |
| Accuracy | ≤3+L/200(um) | | | |
| Resolution | 0.0005mm | | | |
| Screen | Dia:φ312mm,Measurement Range ≥ Ø300 | | | |
| Screen | Rotation Angle 0~360°; Resolution: 1 or 0.01°, Accuracy 6' | | | |
| Load Capacity | 10Kg | | | |
| Digital Readout | DP400 (510-340) Multifunction colorful LCI | Odigital readout | | |
| Working Environment | Temp 20℃±5℃, Humidity 40% −70%RH | | | |
| W | Contour Illumination : 3.2V/10W LED | | | |
| Illumination | Surface Illumination : 3.2V/10W LED | | | |
| Cold-air Blowing System | 3-axis Powerful Fan | | | |
| Power Supply | AC110V/60Hz; 220V/50Hz,150W | | | |

| Specifications | | | |
|------------------|--------------|--------------|----------------|
| Magnification | 10X (Std.) | 20X (Opt.) | 50X (option) |
| Field of View | φ40mm | φ20mm | φ8mm |
| Working Distance | 80mm | 67.7mm | 51.4mm |









High Accuracy Excellent Quality Long Using Life

Ø400mm Digital Vertical Profile Projector VP400 Series





- The lifting system adopts cross roller rail and precision screw drive, which makes lifting drive more comfortable and stable;
- Coating process reflector, clearer image and great dustproof;
- Adjustable contour and surface illumination, to meet with difference workpiece
- Imported high light and long using life LED illumination, to ensure precision measurement demand;
- High resolution optical system with clear image and magnification error is less than 0.08%;
- Powerful Bi-axial fan cooling system, highly increase using life;
- Powerful and colorful DRO DP400, realized fast and accurate 2D Measurement; Built-in Mini-printer, can print and save data;
- With standard 10X objective, optional 5X,20X,50X objective, rotary table, foot switch, clamp, etc.



Specifications

| roduct Name | Digital Vertical Profile Projecto | or | | | |
|---------------------|--|-------------------------|-------------------------|--|--|
| everse Image | VP400-2010 (#511-410) | VP400-2515 (#511-420) | VP400-3020 (#511-430) | | |
|)bverse Image | VP400-2010Z (#511-410Z) | VP400-2515Z (#511-420Z) | VP400-3020Z (#511-430Z) | | |
| Metal Stage Size | 308x408mm | 308x408mm | 458x358mm | | |
| Glass Stage Size | 198x306mm | 198x306mm | 356x248mm | | |
| tage Travel | 200x100mm | 250x150mm | 300x200mm | | |
| roduct Dimension | 1003x617x1309mm | 1003x617x1309mm | 1003x617x1309mm | | |
| acking Dimension | 1200x800x1580mm | 1200x800x1580mm | 1200x800x1580mm | | |
| iross/Net Weight | 280/230kg | 280/230kg | 280/230kg | | |
| ocusing | 100mm | | | | |
| ccuracy | ≤3+L/200(um) | | | | |
| esolution | 0.0005mm | | | | |
| | Dia:φ412mm,Measurement Range ≥ Ø400 | | | | |
| creen | Rotation Angle 0~360° ;Resolution: 1 or 0.01°,Accuracy 6' | | | | |
| oad Capacity | 10Kg | | | | |
| igital Readout | DP400 (510-340) Multifunction colorful LCD digital readout | | | | |
| Vorking Environment | Temp 20°C±5°C, Humidity 40% −70%RH | | | | |
| U. main asia n | Contour Illumination : 3.2V/10W LED | | | | |
| lumination | Surface Illumination : 3.2V/10W | LED | | | |
| ower Supply | AC110V/60Hz; 220V/50Hz,150W | | | | |

| Specifications | | | | |
|------------------|-------|-------|--------|--------|
| Magnification | 5X | 10X | 20X | 50X |
| Field of View | φ80mm | φ40mm | φ20mm | φ8mm |
| Working Distance | 65mm | 80mm | 67.7mm | 51.4mm |











High Accuracy Excellent Quality Long Using Life





- Ø400mm vertical optical path system;
- Projector body lifting focus system;
- Stage load capacity can reach 30Kg;
- Telecentric Cold LED lightsoruce;
- High powerful and colorful DRO DP400;
- Optional 5X, 20X, 50X objective is available.



Specifications

| Product Name | Digital Vertical Profile Projector |
|---------------------|--|
| Reverse Image | VP420-3020 (#511-450) |
| Obverse Image | VP420-3020Z (#511-450Z) |
| Metal Stage Size | 458x358mm |
| Glass Stage Size | 356x248mm |
| Stage Travel | 300x200mm |
| Product Dimension | 1003x617x1309mm |
| Packing Dimension | 1200x800x1580mm |
| Gross/Net Weight | 280/230kg |
| Focusing | 100mm |
| Accuracy | ≤3+L/200(um) |
| Resolution | 0.0005mm |
| 5 | Dia:φ412mm,Measurement Range ≥ Ø400 |
| Screen | Rotation Angle 0~360°; Resolution: 1 or 0.01°, Accuracy 6' |
| Load Capacity | 10Kg |
| Digital Readout | DP400 (510-340) Multifunction colorful LCD digital readout |
| Working Environment | Temp 20°C±5°C, Humidity 40% −70%RH |
| Illumination | Contour Illumination : 3.2V/10W LED |
| Illumination | Surface Illumination : 3.2V/10W LED |
| Power Supply | AC110V/60Hz; 220V/50Hz,150W |
| | |

| Specifications | | | | |
|------------------|----------|-----------|-----------|-----------|
| Magnification | VP420-5X | VP420-10X | VP420-20X | VP420-50X |
| Field of View | φ80mm | φ40mm | φ20mm | φ8mm |
| Working Distance | 65mm | 80mm | 67.7mm | 51.4mm |















- The lifting system adopts cross roller rail and precision screw drive, which makes lifting drive more comfortable and stable;
- Coating process reflector, clearer image and great dustproof;
- Adjustable contour and surface illumination, to meet with difference workpiece demand;
- Imported high light and long using life LED illumination , to ensure precision measurement demand;
- High resolution optical system with clear image and magnification error is less than 0.08%;
- Powerful Bi-axial fan cooling system, highly increase using life;
- Powerful and colorful DRO Dp400, realized fast and accurate 2D Measurement;
- Built-in Mini-printer, can print and save data;
- With standard 10X objective, optional 5X,20X, 50X objective, rotary table, foot switch ,clamp, etc.

Specifications

| Product Name | Digital Vertical Profile Projector | | | |
|---------------------|---|--|--|--|
| Model | PV410-2010 | | | |
| Code# | 511-440 | | | |
| Table Size | 308x408mm | | | |
| Glass Table Size | 198x306mm | | | |
| XY Travel Range | 200x100mm | | | |
| Z Travel Range | 100mm | | | |
| Accuracy | ≤3+L/200(um) | | | |
| Resolution | 0.001mm | | | |
| Max. Workpiece Load | 10Kg | | | |
| S | Effective Diameter:φ412mm ≥ Ø400mm | | | |
| Screen | Screen rotation 0~360°; Resolution: 1′ or 0.01°, accuracy: 6′ | | | |
| Digital Readout | DP400 (510-340) Multifunction colorful LCD digital readout | | | |
| Working Environment | Temp 20°C±5°C, Humidity 40% −70%RH | | | |
| Power Supply | AC110V/60Hz; 220V/50Hz,150W | | | |
| Illi | Contour Illumination : 3.2V/10W LED | | | |
| Illumination | Surface Illumination : 3.2V/10W LED | | | |

| Specifications | | | | | |
|------------------|----------|-----------|-----------|-----------|--|
| Magnification | PV410-5X | PV410-10X | PV410-20X | VP420-50X | |
| Field of View | φ80mm | φ40mm | φ20mm | φ8mm | |
| Working Distance | 65mm | 80mm | 67.7mm | 51.4mm | |



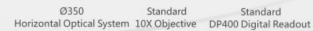
















- The lifting system adopts linear guide rail and precision screw drive, which makes lifting drive more comfortable and stable;
- Coating process reflector, clearer image and great dustproof;
- Adjustable contour and surface illumination, to meet with difference workpiece demand;
- Imported high light and long using life LED illumination , to ensure precision measurement demand;
- High resolution optical system with clear image and magnification error is less than 0.08%;
- Powerful Bi-axial fan cooling system, highly increase using life;
- Powerful and colorful DRO Dp400, realized fast and accurate 2D Measurement;
- Built-in Mini-printer, can print and save data;
- With standard 10X objective, optional, 20X, 50X objective, rotary table, foot switch, clamp, etc.

Specifications

| Product Name | Digital Horizontal Profile Projector | | |
|----------------------|--|--|--|
| Model | PH350-2010 | | |
| Code# | 512-350 | | |
| Working Stage Size | 355x126mm | | |
| Working Stage Travel | 200x100mm | | |
| Focusing | 90mm | | |
| Accuracy | ≤4+L/200(um) | | |
| Resolution | 0.0005mm | | |
| Load Capacity | 15Kg | | |
| Screen | φ380mm, Effective range ≥ Ø350mm | | |
| Screen | Rotation Angle 0~360°; Resolution: 1 or 0.01°, Accuracy 6' | | |
| Digital Readout | DP400 (510-340) Multifunction colorful LCD digital readout | | |
| Illumination | Contour Illumination : 3.2V/10W LED | | |
| Illumination | Surface Illumination: 220V/130W LED | | |
| Working Environment | Temp 20°C±5°C,Humidity 40% −70%RH | | |
| Power Supply | AC110V/60Hz; 220V/50Hz,200W | | |

| Specifications | | | | |
|------------------|-----------|-----------|-----------|--|
| Magnification | PH350-10X | PH350-20X | PH350-50X | |
| Field of View | φ30mm | φ15mm | φ6mm | |
| Working Distance | 75mm | 69mm | 44mm | |















- The lifting system adopts cross roller rail and precision screw drive, which makes lifting drive more comfortable and stable;
- Coating process reflector, clearer image and great dustproof;
- Adjustable contour and surface illumination, to meet with difference workpiece demand;
- Imported high light and long using life LED illumination, to ensure precision measurement demand;
- High resolution optical system with clear image and magnification error is less than 0.08%;
- Powerful Bi-axial fan cooling system, highly increase using life;
- Powerful and colorful DRO DP400, realized fast and accurate 2D Measurement;
- Built-in Mini-printer, can print and save data;
- With standard 10X objective, optional 5X,20X, 50X objective, rotary table, foot switch , clamp, etc.



Specifications

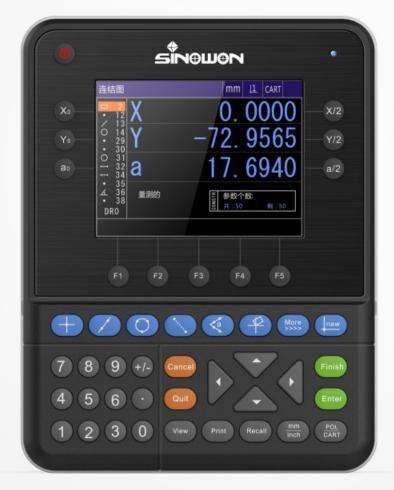
| Product Name | Digital Horizontal Profile Projector | | |
|----------------------|--|--|--|
| Model | PH400-3015 | | |
| Code# | 512-400 | | |
| Working Stage Size | 455x126mm | | |
| Working Stage Travel | 300x150mm | | |
| Focusing | 120mm | | |
| Accuracy | ≤3+L/200(um) | | |
| Resolution | 0.0005mm | | |
| Load Capacity | 15Kg | | |
| Screen | Dia:φ412mm,Measurement Range ≥ Ø400 | | |
| Scieen | Rotation Angle 0~360°; Resolution: 1 or 0.01°, Accuracy 6′ | | |
| Digital Readout | DP400 (510-340) Multifunction colorful LCD digital readout | | |
| Illumination | Contour Illumination : 3.2V/10W LED | | |
| mummation | Surface Illumination : 3.2V/10W LED | | |
| Working Environment | Temp 20°C±5°C,Humidity 40% −70%RH | | |
| Power Supply | AC110V/60Hz; 220V/50Hz,200W | | |
| Product Dimension | 1099 x 1455 x 633mm | | |
| Packing Dimension | 1157 x 1355 x 653mm | | |
| Gross/Net Weight | 350/300kg | | |

| Specifications | | | | | |
|------------------|-------|-------|-------|------|------|
| Magnification | 5X | 10X | 20X | 50X | 100X |
| Field of View | φ80mm | φ30mm | φ15mm | φ6mm | φ3mm |
| Working Distance | 75mm | 75mm | 69mm | 44mm | 26mm |



Color Screen Multifunction Digital Readout













Weak Current

Silicon Button

Multi-language

Color LCD

Characteristic

- 5.6 / Color Screen and Sealed silicone touch button, with full information, friendly operation, long using life;
- Save 100 permanent image elements, can set and save current date;
- Multi-function Measurement: Point, line, circle, angle, distance, rectangular, screw thread, ellipse, slot, rounding, preset, construction, and so on;
- Obverse or Opposite direction counting function, 1/2 value, midpoint, permission function, Call function, REC(record)function, and Cycle measurement;
- Section and linear compensation are available for 3-axis, highly ensure measurement accuracy;
- Can connect foot switch, printer, optical edge detection and other multiple auxiliary measurement tools;
- With polar and coordinate system, and can display millimeter and inch, and can shift easily;
- With independent password permission function, to prevent the posibility of data deviation by wrong operation, it can also change the original setting by password permission;
- Support multiple language: Chinese, English and other language.

Specifications

| Model | DP400 |
|-------------------------|---|
| Code# | 510-340 |
| Language | Simple Chinese, Complicated Chinese, Portuguese, German and English, etc. |
| LCD Screen Size | 115mm×85mm |
| LCD Screen Resolution | 640*480 |
| Digital Display Range | 8Digits(With Decimal Point) |
| Display Axis | 3-axis (X,Y,Z/Q) |
| Z/Q Display Model | Length or Angle |
| Angle Display Model | Degree, Minutes and Second or Degree |
| Linear Scale Signal | TTL square-wave or AC sine wave of two 90 ° phase angle difference, drive capacity larger than 10MA |
| Linear Scale Resolution | 0.1um,0.2um,0.5um, 1um,2um,5um |
| Baud Rate | 4800,9600,14400,19200,38400,57600 |
| Data Output Port | RS232,DB-9 Parent interface |
| Operation Keyboard | Sealed Silicone touch-type keyboard |
| Expansion port | Foot Switch, Printer, Optical Edge Finder, etc |
| Input Power Supply | DC12V/3A |
| Operation Environment | Working Temperature: 0 °C ~ 40 °C; Storage Temperature: –10 °C ~ 60 °C; Relative Humidity : <90 °RH |

Operation Interface







Zoom Lens

Zoom Lens

| Product Name | Click Zoom lens | Coaxial Zoom lens | Electronic Zoom lens | Motorized Zoom lens | Motorized Coaxial Zoom lens | | | | |
|-----------------------|-----------------|-------------------|----------------------|---------------------|-----------------------------|--|--|--|--|
| Code# | 421-111 | 421-121 | 421-141 | 421-131 | 421-151 | | | | |
| Optical Magnification | | 0.7 | ~4.5X(0.6X~7 | .5X) | | | | | |
| Visual Field (1/3) | | 8.08~1.18mm | | | | | | | |
| Visual Field (1/2) | | 11.42~1.77mm | | | | | | | |
| Working Distance | | 92±2mm | | | | | | | |
| Focus Adjustment | | | 0~3mm | | | | | | |
| Magnification | 0.7X | | 2X | 2X 4.5X | | | | | |
| Depth of Visual Field | 0.56m | m | 0.10mm | 0. | .07mm | | | | |
| N.A. | 0.03 | | 0.072 | 0.085 | | | | | |
| Resolution | 5.56µ | 5.56µm | | 1 | .96µm | | | | |
| TV Distortion | 0.139 | 6 | 0.01% | (| 0.01% | | | | |



Optional Auxiliary Objective













Objective

VP300 Objective Specification

| Magnification | Magnification 5X(Special) | | 20X(Opt.) | 50X(Opt.) | 100X(Opt.) | |
|------------------|---------------------------|-----------|-----------|-----------|------------|--|
| Code# | 1 | 511-110 | 511-120 | 511-130 | 511-140 | |
| Visual Field | / | Ø30mm | Ø15mm | Ø6mm | Ø3mm | |
| Working Distance | / | 75mm | 69mm 44mm | | 26mm | |
| Transmitted lens | / | 10X(Std.) | 20X(Opt.) | 50X(Opt.) | 100X(Opt.) | |
| Code# | / | 511-210 | 511-220 | 511-230 | 511-240 | |

VP400 Objective Specification

| Magnification | 5X(Special) | 10X(Std.) | 20X(Opt.) | 50X(Opt.) | 100X(Opt.) |
|------------------|-------------|-----------|-----------|-----------|------------|
| Code# | 511-100 | 511-110 | 511-120 | 511-130 | 511-140 |
| Visual Field | Ø80mm | Ø40mm | Ø20mm | Ø8mm | Ø3mm |
| Working Distance | 75mm | 75mm | 70mm | 47mm | 26mm |
| Transmitted lens | 1 | 10X(Std.) | 20X(Opt.) | 50X(Opt.) | 1 |
| Code# | / | 511*T11 | 511*T21 | 511*T31 | 1 |

PH400 Objective Specification

| Magnification | 5X(Special) | 10X(Std.) | 20X(Opt.) | 50X(Opt.) | 100X(Opt.) |
|------------------|-------------|-----------|-----------|-----------|------------|
| Code# | 512-100 | 512-110 | 512-120 | 512-130 | 512-140 |
| Visual Field | Ø80mm | Ø30mm | Ø15mm | Ø6mm | Ø3mm |
| Working Distance | 75mm | 75mm | 69mm | 44mm | 26mm |







APO Objective



45mm Long working distance bright field metallurgical objectives

Characteristic

- For visible light imaging system;
- For invisible light imaging system;
- Supplied high resolution and outstanding contrast.



95mm Extended Long working distance bright field metallurgical objectives

45MM Objective Specification

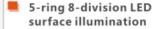
| Product Name Code | | | | | | Eyepiece (WF10/25) | | | |
|-------------------|---------|----------|-----------------|--------|---------|--------------------|---------------|----------------------|--------|
| | Code# | de# N.A. | W.D.(mm) F'(mm) | F'(mm) | ±Δp(μm) | R(µm) | Magnification | Visual Field (mm) | ±Δ(μm) |
| 45mmAPO 5X | 426-415 | 0.13 | 11.6 | 40 | 16.3 | 2.1 | 50X | Φ5 | 38.3 |
| 45mmAPO 10X | 426-425 | 0.3 | 6.4 | 20 | 3.1 | 0.9 | 100X | Ф2.5 | 7.8 |
| 45mmAPO 20X | 426-435 | 0.4 | 11.1 | 10 | 1.7 | 0.7 | 200X | Ф1.25 | 3.5 |
| 45mmAPO 50X | 426-445 | 0.55 | 8.2 | 4 | 0.9 | 0.5 | 500X | Ф0.5 | 1.4 |
| 45mmAPO 100X | 426-455 | 0.80 | 2 | 2 | 0.4 | 0.3 | 1000X | Ф0.25 | 0.7 |

95MM Objective Specification

| Product Name Code# | | | | | | | Eyepiece (WF10/24) | | |
|--------------------|---------|----------|--------|---------|-------|---------------|----------------------|--------|------|
| | N.A. | W.D.(mm) | F'(mm) | ±Δp(μm) | R(μm) | Magnification | Visual Field (mm) | ±Δ(μm) | |
| 95mmAPO 2X | 426-915 | 0.055 | 34.6 | 100 | 91 | 5 | 20X | Ф12 | 221 |
| 95mmAPO 5X | 426-925 | 0.14 | 45 | 40 | 14 | 2 | 50X | Ф4.8 | 38.3 |
| 95mmAPO 10X | 426-935 | 0.28 | 34 | 20 | 3.5 | 1 | 100X | Ф2.4 | 8.6 |
| 95mmAPO 20X | 426-945 | 0.29 | 30.8 | 10 | 3.5 | 1 | 200X | Ф1.2 | 5.8 |
| 95mmAPO 50X | 426-955 | 0.42 | 20.5 | 4 | 1.6 | 0.7 | 500X | Ф0.48 | 2.3 |



Part Accessories





4-ring 8-division LED surface illumination



LED Parallel Contour Illumination



LED Point Illuminator



Zoom Lens



Motorized Zoom lens



Touch Probe



Laser Probe



DH Capture Card



CCD Camera







Controller



Servo Motor



Stereo Microscopes Eyepieces



CCD Adapter



Screen Clamp Device



Over-Chart



Edge Detector



Foot-Switch



Rotary Vise



Objective



Working Cupboard



Rotary Tables







Sinowon Innovation Metrology Manufacture Limited Sinowon (Shanghai) Automation Technology Co.,Ltd.

Address: A1, Kai Song Park, 2# Baima Xianfeng Road, South District, Dong Guan, China (523080)

Tel:+86-769-23184144; Fax:+86-769-22854144 Web:www.sinowon.com; E-mail:sinowon@188.com

Hotline: +86 137-2828-8444



Authorized Distributors: