

HEAD LIGHT TESTER



Image processing (automated)



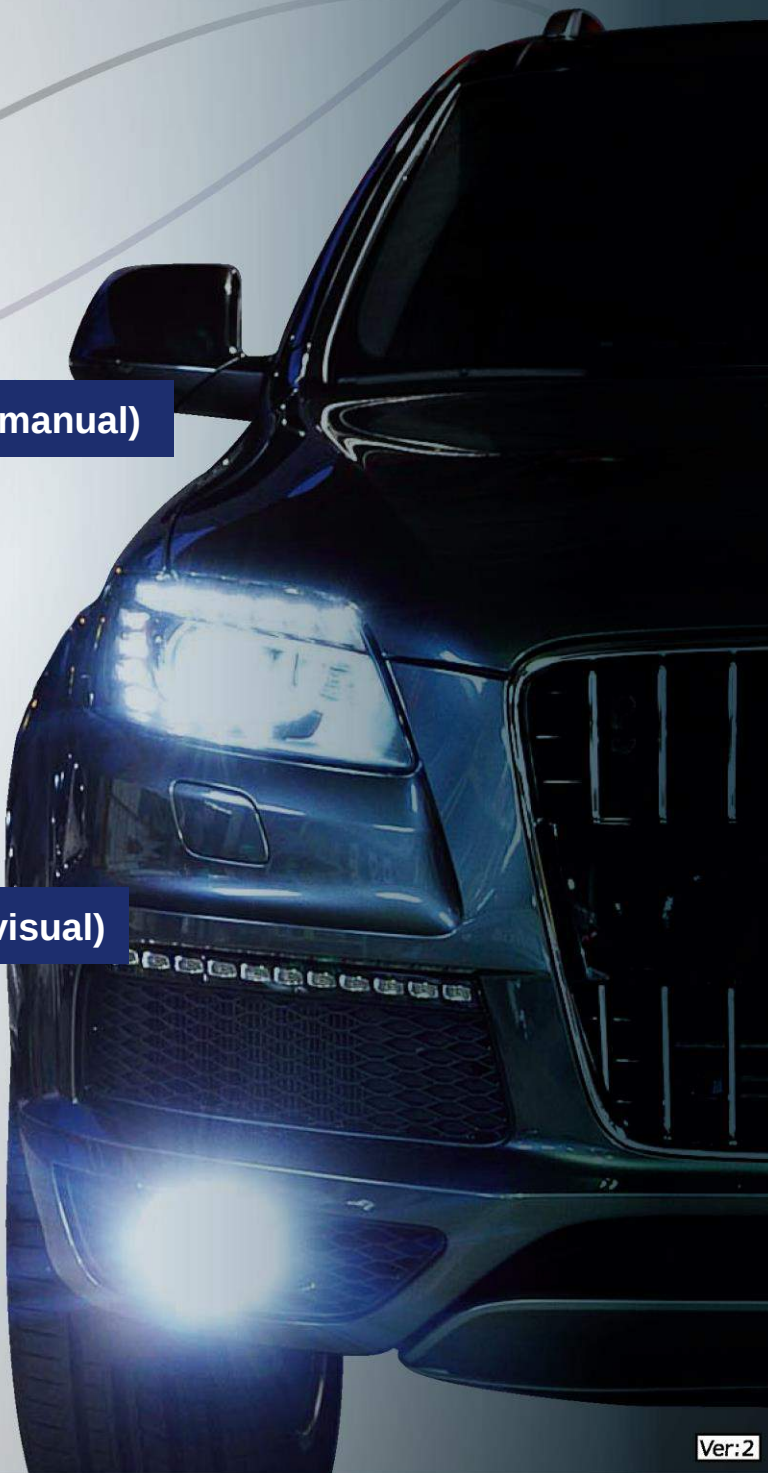
Image processing (manual)



Image processing (visual)



Screen-based



Ver:2

Comparison of operation content·operation time

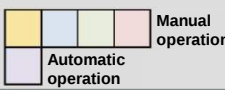
Dipped headlight - Measurement/adjustment time

Image processing (automated) Image processing (manual) Headlight tester

The elbow point is automatically displayed to remarkably save time.



[Specific color classification]



Time	1 minutes				2 minutes				3 minutes				4 minutes				5 minutes			
Model																				
Image processing (automated)	Face the vehicle	Move towards the right headlight	Face the headlight	Measurement	Move towards the left headlight	Face the headlight	Measurement	Storage	1 minute and 20 seconds											
Image processing (manual)	Face the vehicle	Move towards the right headlight	Face the headlight	Measurement	Move towards the left headlight	Face the headlight	Measurement	Storage	2 minute and 30 seconds											
Image processing (visual)	Face the vehicle	Move towards the right headlight	Face the headlight	Measurement	Move towards the left headlight	Face the headlight	Measurement	Storage	2 minute and 30 seconds											
Screen-based	Face the vehicle	Move towards the right headlight	Face the headlight	Measurement	Move towards the left headlight	Face the headlight	Measurement	Storage												

Running light - Measurement/adjustment time

4 minute and 50 seconds

Time	1 minutes				2 minutes				3 minutes				4 minutes			
Model																
Image processing (automated)	Face the vehicle	Move towards the right headlight	Face the headlight	Measurement	Move towards the left headlight	Face the headlight	Measurement	Storage	1 minute and 20 seconds							
Image processing (manual)	Face the vehicle	Move towards the right headlight	Face the headlight	Measurement	Move towards the left headlight	Face the headlight	Measurement	Storage	2 minute and 30 seconds							
Image processing (visual)	Face the vehicle	Move towards the right headlight	Face the headlight	Measurement	Move towards the left headlight	Face the headlight	Measurement	Storage	2 minute and 50 seconds							
Screen-based	Face the vehicle	Move towards the right headlight	Face the headlight	Measurement	Move towards the left headlight	Face the headlight	Measurement	Storage	3 minute and 30 seconds							

Further enhance operational efficiency by introducing the vehicle inspection computer system!

Image processing (automated) Image processing (manual) Image processing (visual) The headlight tester can be linked with the vehicle inspection computer system Smart-VIS.

Embrace efficient and effortless final inspections!

- The automatic measurement procedure, operating instructions, and vehicle driving instructions are displayed on a large LCD screen (standard size: 32 inches), boasting exceptional definition!
- The measurement data from the vehicle inspection instrument is automatically computed and evaluated!
- Linking with a dot-matrix printer (optional) enables automatic printing of measurement outcomes in the "Inspection Using Inspection Instruments, etc." section of the logbook!



Inspection procedure

1. Initiate Inspection



2. Input vehicle details



3. Various inspections



4. Pass/fail judgment



5. Comprehensive evaluation



Measurement outcomes are printed in the "Inspection Using Inspection Instruments, etc." section using a printer! (Optional)

IM2774 Image processing (automated)

- Fully automatic process from facing the headlight to measurement conclusion
- Automated low beam measurement
- Automated high beam measurement
- Functionality to make a pass/fail judgment
- Crosshair laser
- LED pulsing supported
- Projector and fog light supported

Superb operability!
Fully automatic process from facing the headlight to measurement!
Top-of-the-line model with high handling capacities

- Straightforward, accurate, and rapid automatic alignment and measurement of headlights!



Press the Start button, and the headlight tester will automatically move vertically and horizontally to locate the light source of the headlights!

- Equipped with cameras facing the vehicle

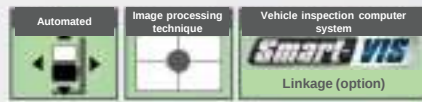


Align the vehicle using the camera!
No scope is needed.
Anyone can align the vehicle with ease and accuracy!

- User-friendly measurement outcome interface



Measurement outcomes are presented clearly and intuitively!
Green indicates pass, while red indicates fail



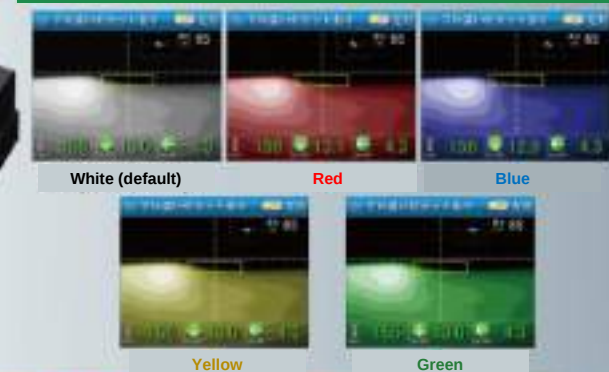
IM2703 Image processing (manual)

- Automated low beam measurement
- Automated high beam measurement
- Functionality to make a pass/fail judgment
- Crosshair laser
- LED pulsing supported
- Projector and fog light supported

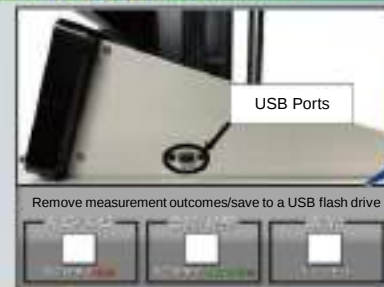
- During measurement and adjustment, The light distribution display can be enlarged or reduced!



- Light distribution image color display switching is available Customizable with various colors for enhanced visibility!

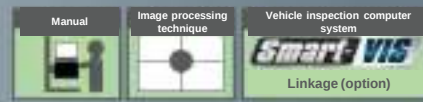


- This system not only stores measurement outcomes but also retains light distribution images and vehicle images with license plate details, with a storage capability of up to 3,000 vehicles!



Come standard with USB ports!
Facilitate data export to external PCs

※ Image Processing Modes: **Automated** vs. **Manual** - The primary distinction lies in the time taken for measurements (the headlight tester configured with "image processing (automated)" aligns with headlights automatically). The interfaces for measurement, pass/fail judgment, light distribution image camera display switching, and vehicle image saving features remain consistent across both modes.



IM2707 Image processing (visual)

- Automated high beam measurement
- Functionality to make a pass/fail judgment
- Crosshair laser
- LED pulsing supported
- Projector and fog light supported

- First of its kind!

- It comes with "Brightness Indication for the Upper and Lower Positions of the Light-Dark Transition Line!" (For dipped headlight measurement)



Measurement method: Measure the vertical position within 30cm to 70cm on the right side (red-lined area). The reference line is displayed only when the measurement button is pressed and held

- "Slant Angle Adjustment" enables more accurate measurement and adjustment!



Visual measurement is also straightforward to target!

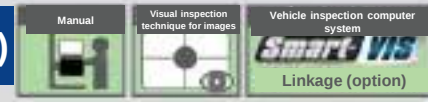
- First of its kind!

- Using the "C-MOS camera"!

In C-MOS cameras, each pixel contains an amplification circuit (amplifier) that boosts signal loads (electrical energy) before reading them as voltage or current. Compared with conventional CCD cameras, C-MOS cameras boast stronger resistance to interference.



Eliminate color distortion (fuzziness)!
The C-MOS camera enables compatibility with novel light sources (HID-LED) featuring high brightness



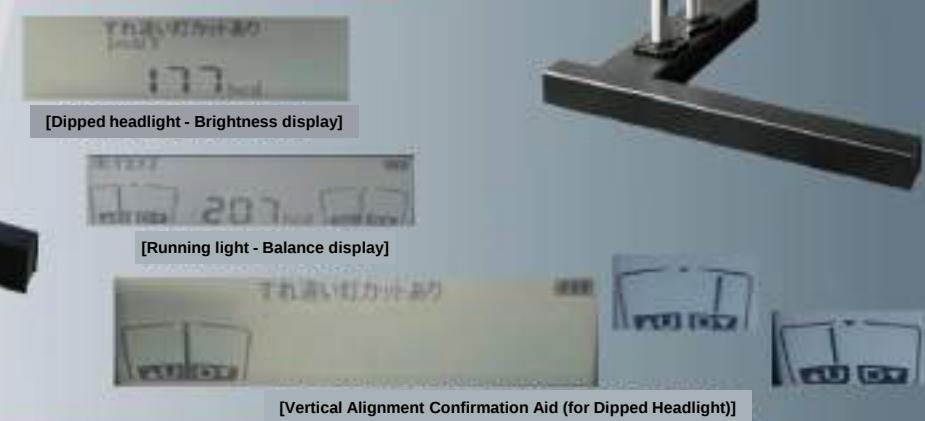
IM2714 Screen-based

- Vertical movement with a turntable
- Operation with single handle
- Crosshair laser
- LED pulsing supported
- Projector and fog light supported

- Dial operation is simple and straightforward

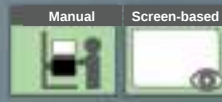
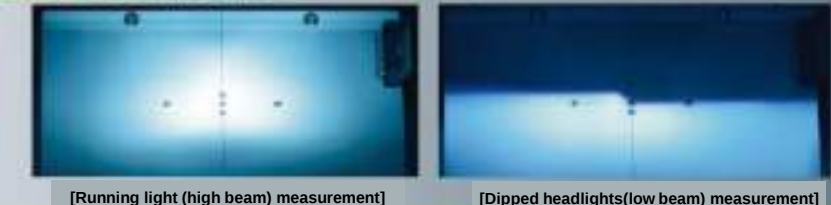


- Digital presentation on LCD panel

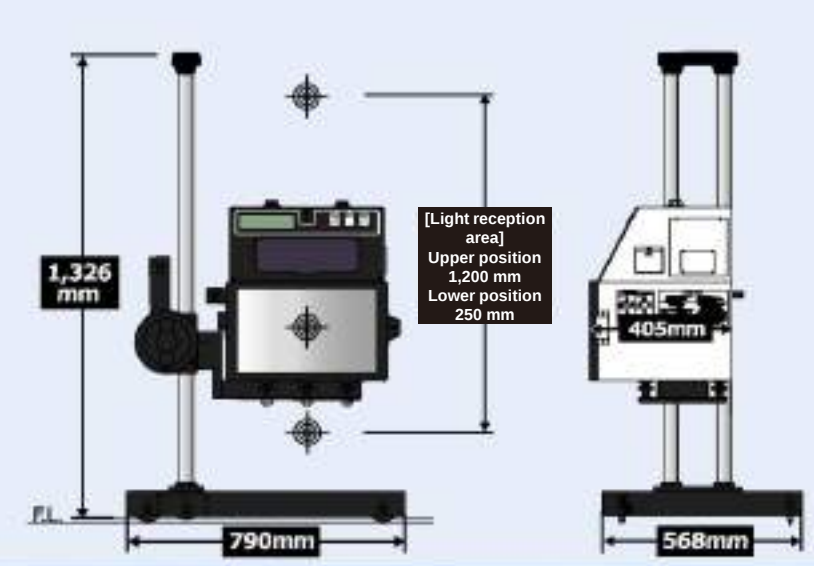
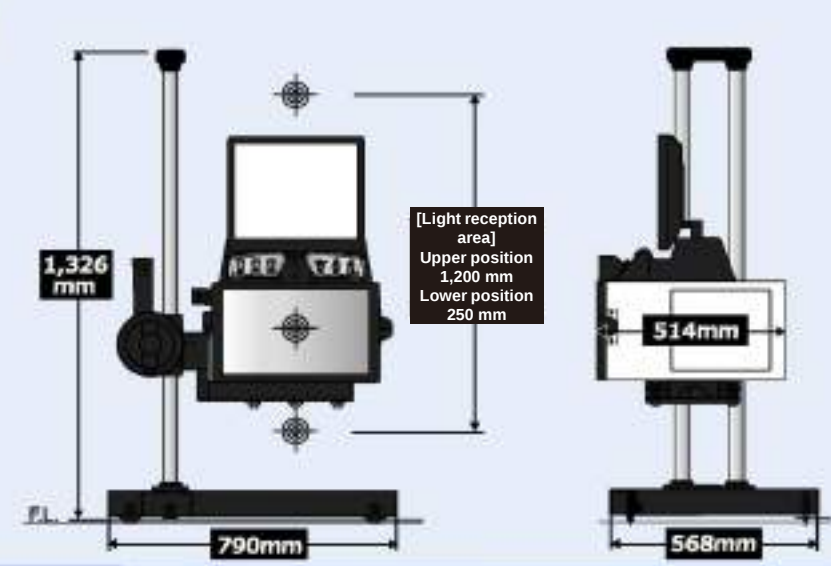
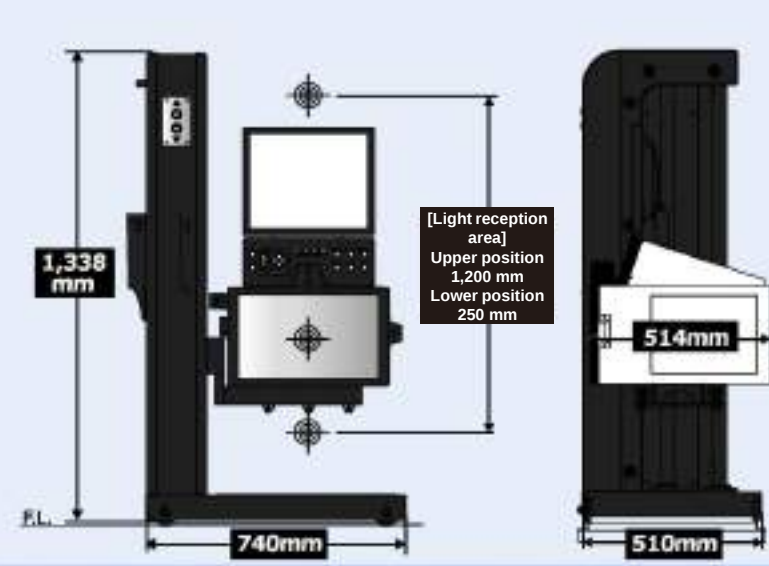
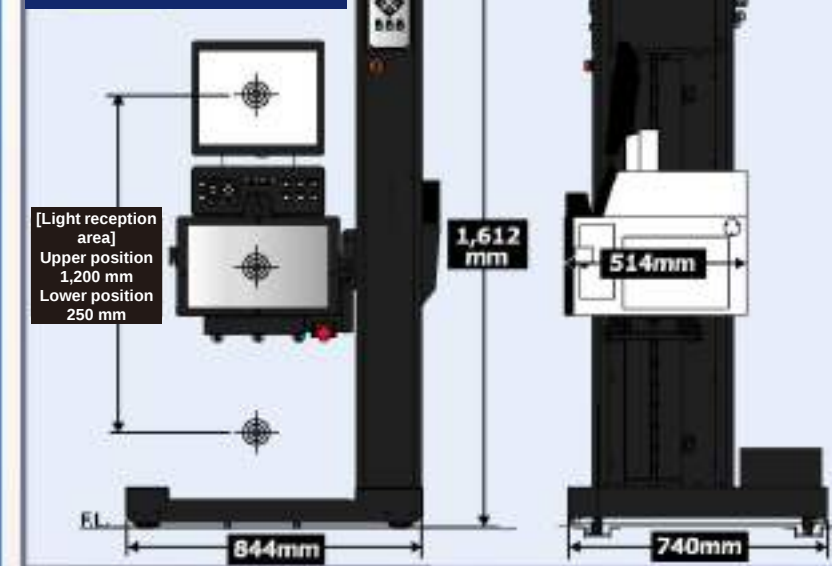


- Equipped with a "Crosshair Laser" as standard for precise alignment with the headlight center

- Applicable for measuring both high and low beams



Specification diagram

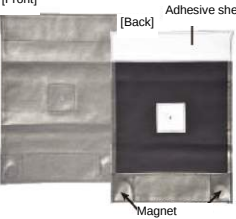


Specification

Item number		IM2774	IM2703	IM2707	IM2714
Measurement technique		Image processing (automated)		Image processing (visual)	
Compatibility test model		IDP-5000 Category S-10		MSC-1000	
Type test number		JASEA-H-46		JASEA-H-44	
Test method		Image processing technique (high beam-low beam) ※ Target tracking		Image processing technique (high beam) ※ Target tracking Visual inspection technique via image (low beam)	
Instrument indication range for vertical and horizontal alignment (Measuring range)					
Brightness indication range		High beam: 50~1200 hcd Low beam: 50~1200 hcd		High beam: 50~1200 hcd Low beam: 50~1200 hcd	
Vertical elevator		Motor-powered elevator		Turntable-based	
Measurement range for headlight mounting height		25~120cm			
Method for headlight alignment		C-MOS camera - Automated alignment		C-MOS camera - Manual alignment	
Vehicle aligning device		Camera-based ※1		Sighting scope-based	
LCD		17inches		-	
Power		AC100V (50Hz/60Hz)		AC100V (50Hz/60Hz) or Charging-based (lithium battery)	
Body size		W844mm×D740mm×H1,612mm		W790mm×D568mm×H1,326mm	
Body weight		About 145kg		About 55kg	
Suitable guide rail ※2		480 mm-550 mm-600 mm Back-and-forth movement specifications: 1000 mm		360 mm-420 mm-480 mm-550 mm-600 mm Back-and-forth movement specifications: 1000 mm	
Standard specifications	Crosshair laser for aligning with headlights	●		●	
	Functionality to make a pass/fail judgment	●		●	
	Tool storage box	●		●	
	Cover of light reception area	●		●	
	Heat-resistant secondary shade (Magnet specifications)	●		●	
Special specifications (Option)	Smart-VIS linkage (Communication specifications)	●		●	
	Back-and-forth movement specifications	●		●	
	IM270A-0600 Explosion-proof specifications for SS installation (limit switches, special rings, etc.)	●		●	

※1 The headlight tester with automated image processing aligns with the vehicle using a camera. The vehicle aiming device (sighting scope) is available as an option.※2 Should you require guide rails with non-standard dimensions, please contact us.
※ For headlamps with blurry, tilted, or uneven light distribution in the horizontal area of the light-dark transition line, or those with peculiar upward illumination patterns, accurate measurement might not be possible.
※ In the case of lights lacking a distinct light-dark transition line, be sure to use upward measurement.※ Impossible to measure the right driving headlight

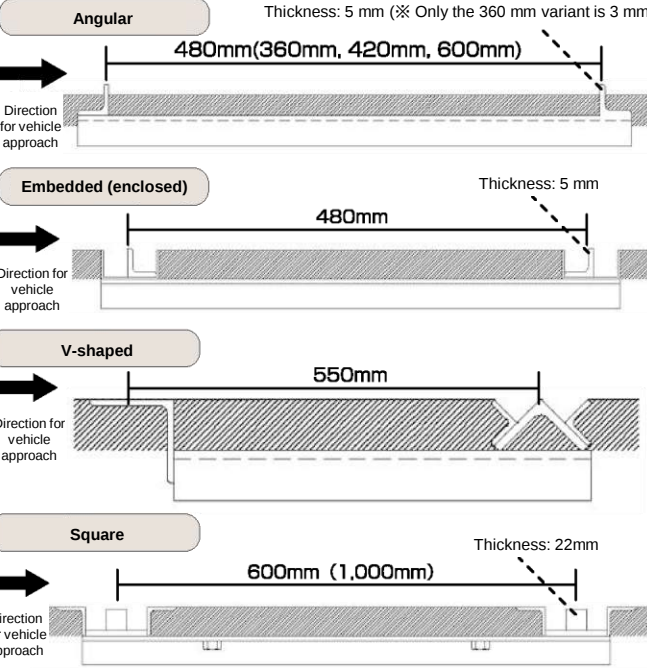
Option

Back-and-forth movement specifications	Stopping position guiding device	Machine cover (Available for all models except the IM2774 automated headlight tester)	Screen dust cover (Available for all models except the IM2714)
Move orthogonally to the left-right guides for 600 mm or 1000 mm. 	As the vehicle enters and approaches the tester, the guidance indicators for "Advance, Stop, Retreat" illuminate when the vehicle is within 1 meter of the tester. 	Protect the entire body, preventing dust accumulation and contamination. (Designed with a zipper) 	Shield the LCD, preventing dust accumulation and contamination. 
IM270A-0100	IM270A-0300	IM270A-0400	
Load-bearing cable assembly (7m)	3 m upright	Secondary shade (adhesive attachment)	
Attach the power cable to the load-bearing cable bolt hook, tensioner, and pulley, terminating it to a 100V power source. 	Ideal for sites where load-bearing cables arrangement is unfeasible. 	This cover is suitable for aluminum and FRP bodies. (With magnetic sheets and adhesive sheets measuring 250x350 mm) [Front] [Back] Adhesive sheet  Magnet 	
IM2701-0MWR	IM270A-0200	IM270A-0500	

※ The model number for the secondary shade (magnetic type) of the standard accessory is IM2720-001L.

Guide rail profile and dimensions

The headlight tester comes with various guide rail designs. To use pre-configured guides, be sure to confirm the profile, dimensions, etc.



Safety Precautions

Ensure safe and correct operation by meticulously reading the User Manual beforehand.

- Specifications are subject to change without prior notice; we appreciate your understanding.
- For orders or inquiries, please contact your local dealer or any ALTIA branches.

ALTIA CO., LTD.

Harumi Triton Square Z-6F, 1-8-12 Harumi, Chuo-ku, Tokyo 104-6206 Japan

TEL:03-6777-0065

ORZO
2206



<https://altia.co.jp>

