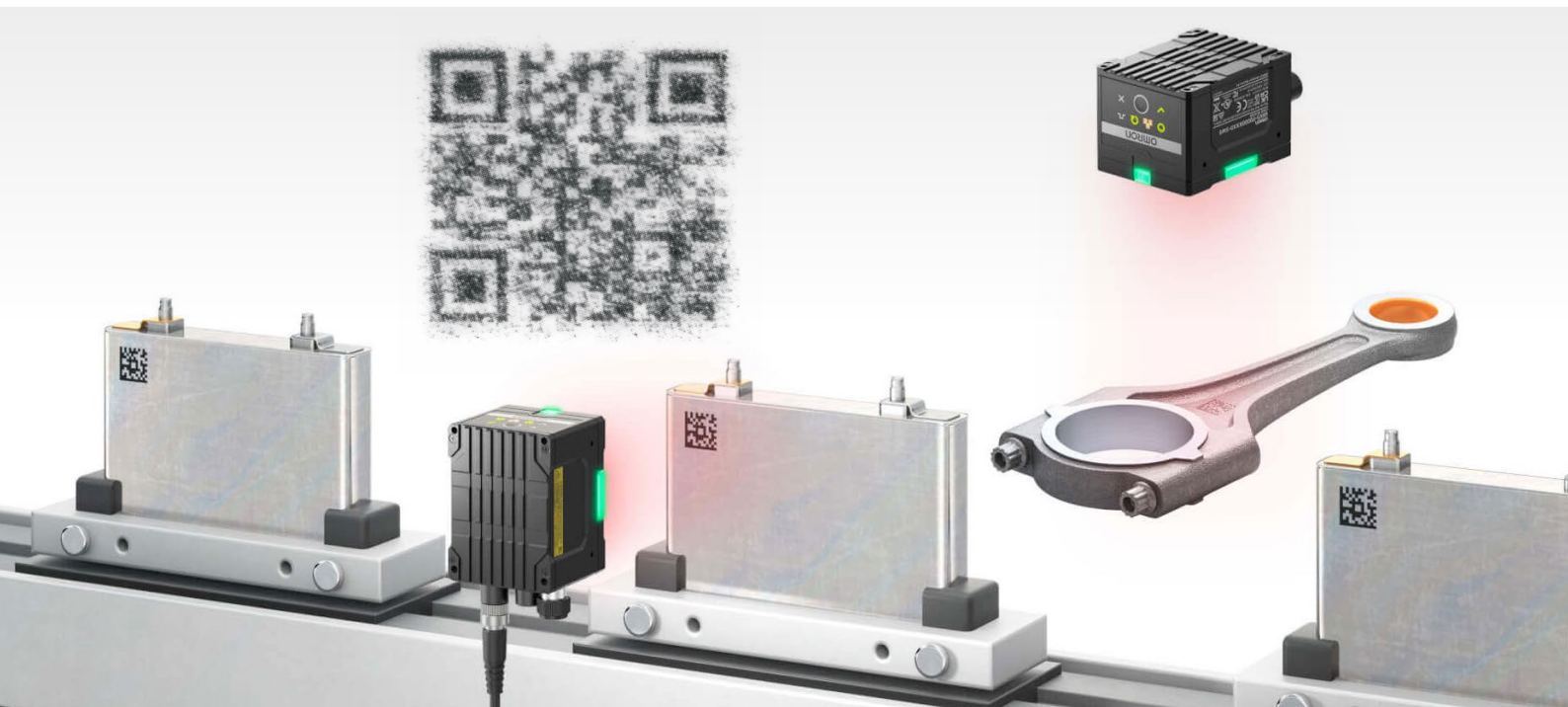


# Unreadable codes



**Barcodes are used for tracking and identifying goods and parts. Maintaining the marking quality of the barcodes assures barcode readability through processes and supply chains.**

- The marking quality of 1D- and 2D-barcodes involves many parameters in the setup and operation of a marking system. The barcode quality verification measures the quality according to standards.
- The overall barcode quality is made up of individual grades and are critical parameters with a minimum individual grade requirements in most supply chains.
- The individual grades for barcode dimension, defects and contrast are great indicators of the health of a marking station.
- The monitoring and analysis of the individual grades of a barcode, can detect issues with setup, configuration and wear and tear of the marking system.

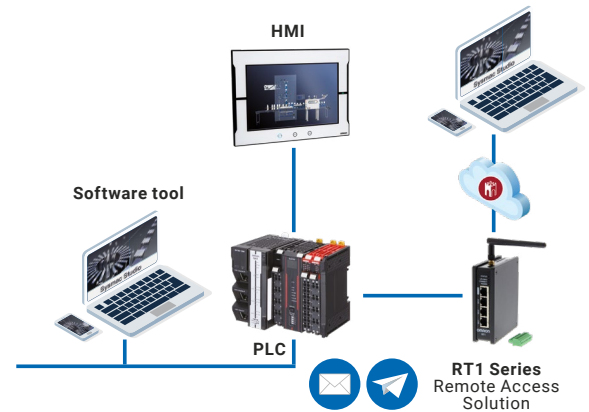
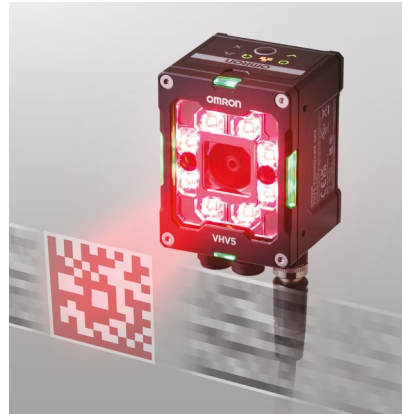
## OMRON Solution

- The Print Quality Grading function enables an in-line check of the relative quality change and the parameters where the change occurred, avoiding problems.
- When an abnormal sifting of grades is detected, timely alerts ensure that corrective actions can be taken promptly.
- Notifications can be sent via email, SMS, or social media platforms like Telegram.
- When monitoring remotely, you'll have access to a graph that displays the trend of measured values.

## Solution

The VHV5 Series includes our unique and robust X-Mode decoding algorithms for difficult to read codes and it offers barcode quality grading to monitor quality of barcodes to detect shifts in the marking performance to trigger maintenance and assure a minimum barcode quality.

Verification Grades	
Reference Decode	4.0
Axial Non-Uniformity	4.0
Contrast	4.0
Fixed Pattern Damage	4.0
Grid Non-Uniformity	4.0
Modulation	4.0
Reflectance Margin	4.0
Unused ECC	4.0
<b>Overall</b>	<b>4.0</b>



OMRON products	Items references
VHV5 – F Barcode scanner	High performance code reader
NX1P-Position starter Kit	Position kit incl: NX1P2-9024DT1; NX-PF0630; NX-ID3417; NX-OD3256; S8VK-S06024, cables and Sysmac Studio Lite License
RT100 Remote Access Solution	RT100-EMM3010: SiteManager LAN, 10 Device Agents, 3x Ethernet Ports, 1x Micro SD slot, 1x USB port

## Complete your equipment with:

### RF-ID system V680 series



In some cases, it might be beneficial to consider more durable coding systems, such as RFID tags.

Noise level measuring mode feature measures the noise level in the space between RF tag and antenna installations and displays the noise level between a range of 00 to 99.

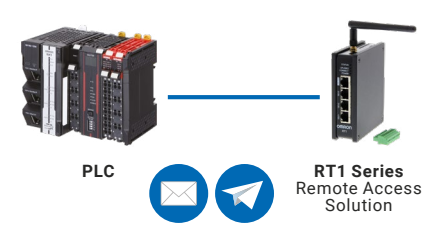
### Traceability toolbox



Dedicated library to plug and play Omron devices used for traceability to integrate the information in Omron NX-series controller.

Single source full hardware solution covering all traceability system aspects: laser marking, code quality management tools, reliable code reading, data collection and communication plus RFID

### Notification Module



NX1P2 PLC triggers an instant notification alert via the RT1 remote access solution. RT1 also allows to identify Root Cause Remotely pinpoint the specific reasons behind these anomalies without being physically present.

For more information visit [industrial.omron.eu](http://industrial.omron.eu)