



Remote Assistance Manual for GR Painting Robot Series.

Version No.: ZL-GR-004-V1

Issue Date: January 2020

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CMA

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Supplier of Intelligent Painting Robots

Statement

Thank you for purchasing the painting robots designed by CMA (WUHU) Robotics Company Limited (CMA, in short). The contents stated in the manual are directly related to your safety, lawful rights and responsibilities. Please ensure to read through the manual and correctly set the operation parameters before use. Any operation that does not strictly follow the instructions or the warnings of the manual might lead to physical injury or property damage. All rights for explanation are reserved by CMA.

This manual is intended for technical reference only which makes no warranty to the entire application of the robot system. Therefore, CMA accepts no responsibility for any accident, damage or industrial copyright dispute that follows the use of the application system. It is strongly recommended that all the professionals involved in operation, teaching, maintenance, and inspection should take CMA special training before being authorized to use the robots.

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The manual should be well kept during the life circle of the robot. An optional copy can be ordered from CMA if the original one is damaged or lost. The address of the new owner is required to be reported to CMA if the robot is resold or transferred.

This manual is an indispensable part of the whole manual collection and all the professionals involved in operation, teaching, maintenance, and inspection are required take CMA special training on the knowledge instructed by the following manuals:

- ☐ ZL-GR-001-V1: Safety Manual for GR Painting Robot Series.
- ☐ ZL-GR-002-V1: Maintenance Manual for GR Painting Robot Series.
- ☐ ZL-GR-003-V1: Explosion Protection Manual for GR Painting Robot Series.
- ☒ ZL-GR-004-V1: Remote Assistance Manual for GR Painting Robot Series.
- ☐ ZL-GR-005-V1: IO Communication Instruction Manual GR Painting Robot Series.
- ☐ ZL-GR-006-V1: Program Editor Instruction Manual for GR Painting Robot Series
- ☐ ZL-GR6150-001-V1 Installation and Connection Instruction Manual for GR6150 Painting Robot.
- ☐ ZL-GR6150-002-V1 Mechanical Operation and Maintenance Manual for GR6150 Painting Robot.
- ☐ ZL-GR6150-003-V1 Electrical Operation and Maintenance Manual for GR6150 Painting Robot.
- ☐ ZL-GR6150-004-V1: Electrical Schematic Diagram for GR6150 Painting Robot.

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About the Manual

The target readers of the manual include professionals involved in robot operation, maintenance and technical service. This manual intends to explain how to use the program editor for all the GR painting robots designed by CMA. The warning pictograms are classified into four categories, “danger”, “caution”, “attention” and “important” respectively. These warnings are relevant to safety and must be observed.

 Danger	Danger! This warning means death might occur, if an operation is not properly performed.
 Caution	Caution! This warning means death or severe physical injury might occur, if an operation is not properly performed.
 Attention	Attention! This warning means minor physical injury or minor material damage may occur, if an operation is not properly performed.
 Important	Important! This warning means special attention should be paid to a certain operation.

Warnings titled by “attention” might also lead to severe consequence in different cases. Therefore it is strongly recommended that anything titled by “attention” should be handled with extreme caution.

- Please read the manual and the files attached carefully and master all the required knowledge about the robot and the safety instructions before use.
- A cover or safety shield is taken out only for the purpose of illustration. Please ensure to restore the cover or safety shield before any operation.
- The figures and photos contained in this manual are for the purpose of illustration only and they might be different from the product purchased.

- The manual is subject to change without prior notice for the purpose of product improvement, specification change and instruction update.
- The manual will be reissued and a new version number will be specified if the contents are renewed.
- Contact the service department with the information printed on the back cover to purchase a new manual if the present one is damaged or lost.
- CMA is not responsible for any consequence caused by any unauthorized modification or change of the robot.



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Chapter One Overview

This manual is a manual for remote cooperation. In case of robot failure and the staff can not arrive at the site immediately for treatment, it can assist customers or after-sales service to complete troubleshooting and solution through remote cooperation.

Chapter Two Connection configuration

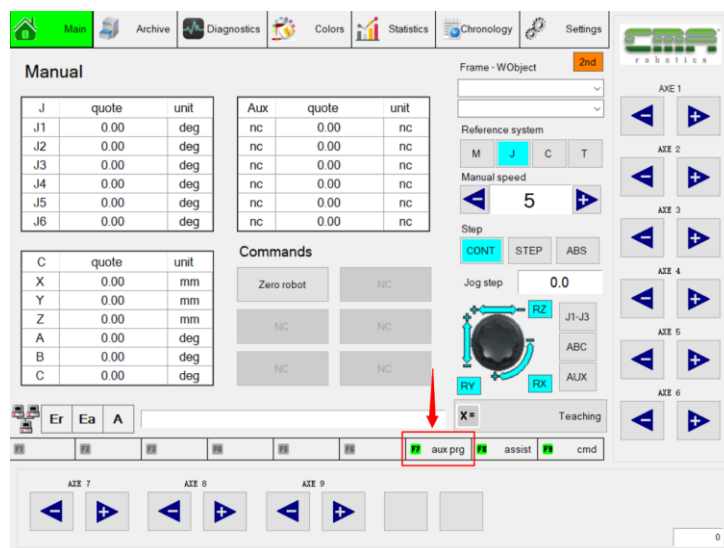
2.1 Preparation before connection

1. An online notebook;
2. Install TeamViewer 12 software on the computer;
3. A network cable;
4. Set the IP address of the notebook to 101.103.107.111;
5. The computer is connected with the switch in the electric cabinet through the network cable;

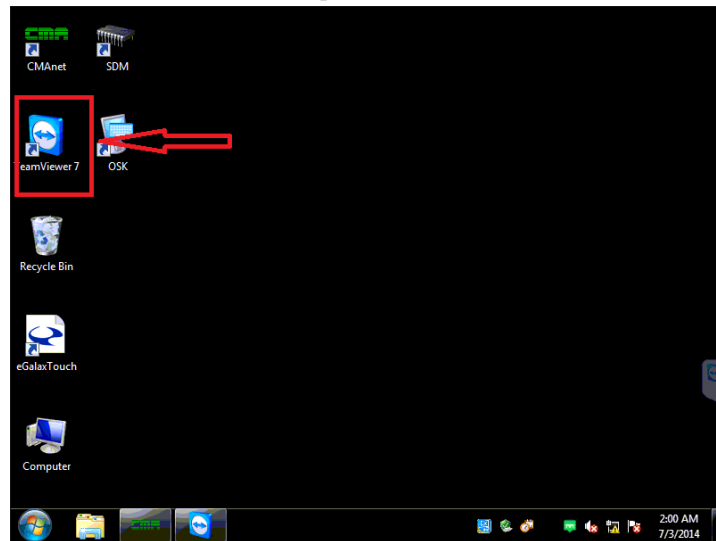
2.2 Connection

Step 1 : Enter the windows interface:

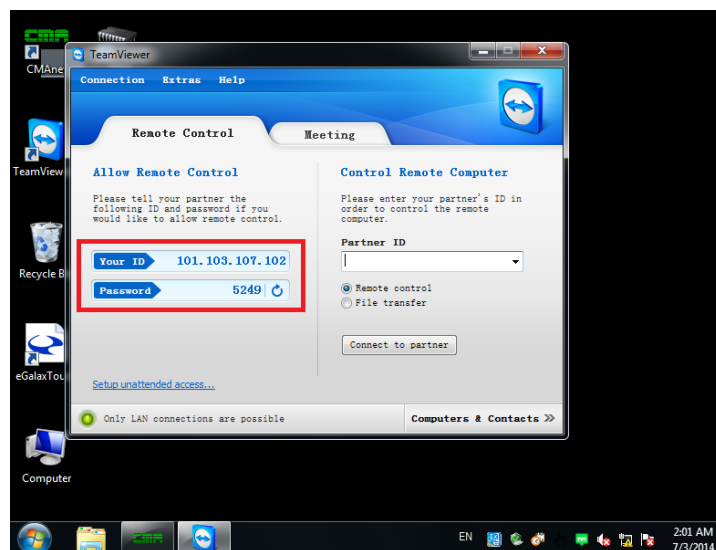
Turn the teach pendant into manual mode, enter the main interface, and click "aux prg" in the lower right corner of the screen, as shown in the following figure:



Step 2: Open the TeamViewer application software on the teach pendant
Double click TeamViewer to open the interface as shown in the figure.

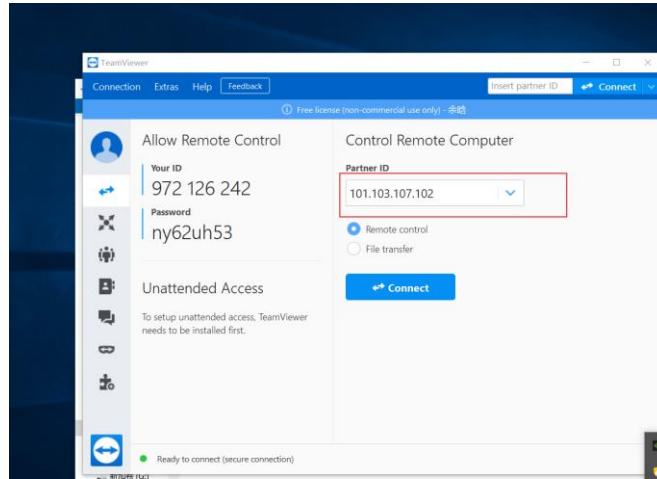


The following figure shows the ID and password of the TPU terminal, which is required for the connection of the computer terminal.

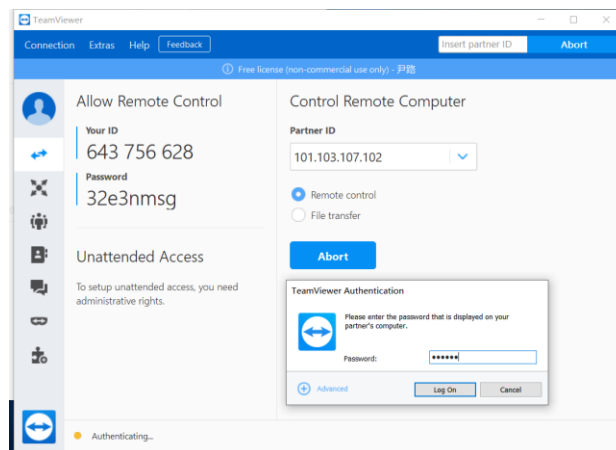


Step 3: Open the computer and double-click TeamViewer, as shown in the following figure:

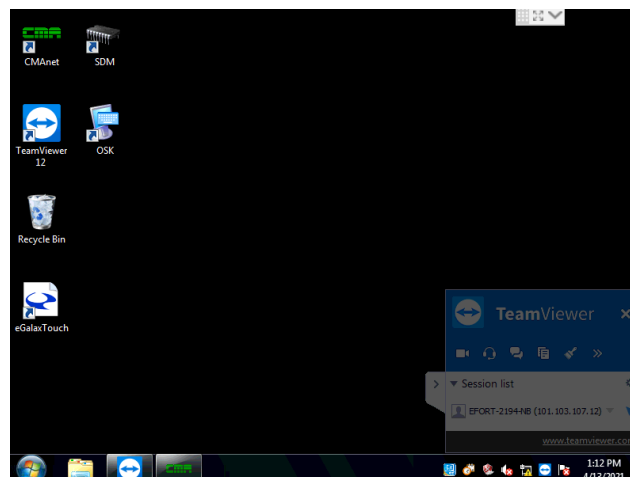
In the partner ID dialog box, enter the ID account of the teach pendant terminal.



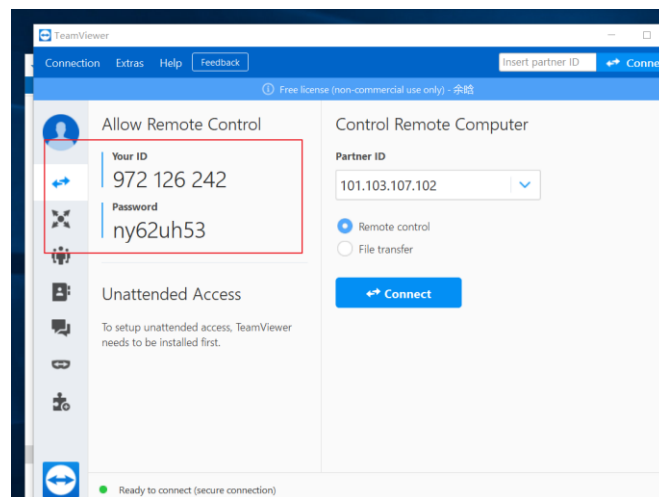
Enter the account code of the teach pendant terminal;



After successful login, as shown in the figure:



Step 4: Take photos of the ID and password of the computer terminal and send the pictures to the remote maintenance personnel. Then the remote personnel can control the robot.





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