




1. Style NEO – A22C/A31C



A. Style NEO – A22C / A31C Specification

Model	Style NEO – A22C	Style NEO – A31C
Dimension	Product : 405x451x597mm/ 32Kg (16.0x17.8x23.5 in) Package : 530x570x680mm/38Kg (20.8x22.4x26.8 in)	Product : 505x645x765mm / 58Kg (19.9x25.4x30.1 in) Package : 720x760x870mm/65Kg (28.3x29.9x34.3 in)
AC Input	Free Volt 100 ~ 240V, 50/60 Hz / ~ 600W (MAX)	Free Volt 100 ~ 240V, 50/60 Hz / ~ 600W (MAX)
Build Speed	MAX 150mm/sec	MAX 150mm/sec
Build Volume	222x222x222mm	310x310x310mm
Layer Height	100~300µm	100~300µm
Display	7" Touch TFT LCD	7" Touch TFT LCD
Filament diameter	1.75mm	1.75mm
Filament Type	ABS, ABS – A100, PLA Plus, PLA – i21, PETG, TPU	ABS, ABS – A100, PLA Plus, PLA – i21, PETG, TPU
Nozzle diameter	0.4mm	0.4mm
Slicing Software	Cubiccreator v4 for Windows (64bit)	Cubiccreator v4 for Windows (64bit)
Connectivity	USB (FAT32/NTFS), Ethernet, Wifi	USB (FAT32/NTFS), Ethernet, Wifi
Input file type	Stl, Obj	Stl, Obj
Operating System	Windows 7 or the latest version	Windows 7 or the latest version
XY / Z Position Precision	3.125 / 1.25 µm	3.125 / 1.25 µm
Max. Nozzle Temp.	260°C	260°C
Max. Build Plate Temp.	120°C	120°C
		

B. Summary (A22C / A31C)

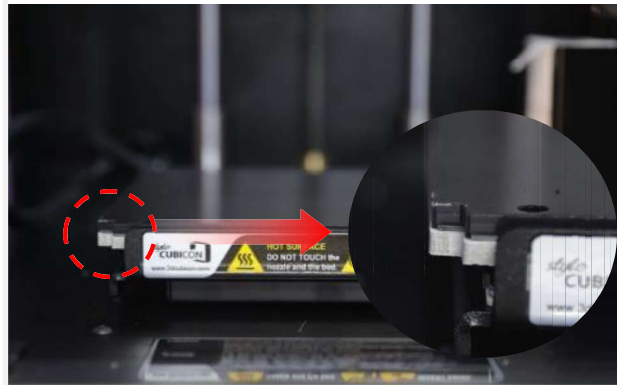
Full Auto Leveling Plus

- Full Auto Leveling Plus of CUBICON makes output precise within 10µm



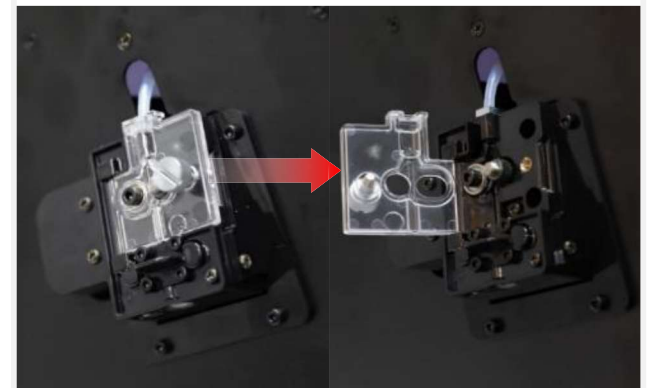
The Specially Coated Heating Bed

- The bed does not need additional tools and makes sure the output is easily detached from the bed without damage



Filament Auto Loading device

- Auto loading device can feed filament automatically and a optical flow sensor informs when the filament runs out.



Replaceable Extruder & Nozzle

- It is easy to maintain with the replaceable extruder and exchangeable nozzles



Spool Holder of Roller type

- Reduced filament load and noise when spool rotates as the expansion of product size



Triple Layered Clean Filter

- With a 3 layered filter, it removes harmful gas, dust, and smell generated in printing



B. Summary (A22C / A31C)

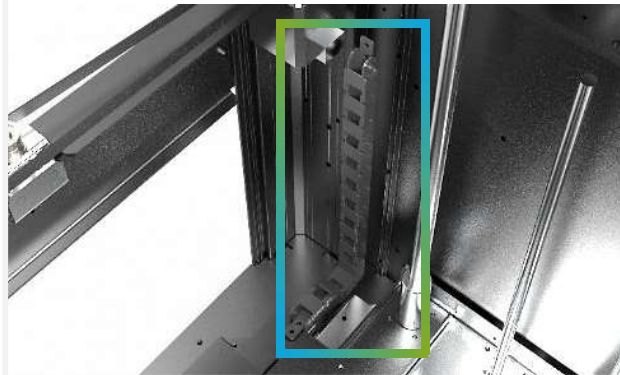
Belt Idler

- A device for keeping the tension of the belt constant for a long time
(Essential Parts of Large 3D Printers)



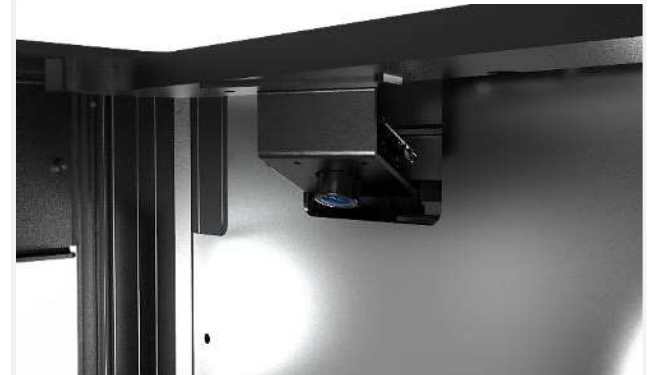
Cable-Carrier

- With cable carrier of Industrial Facilities standard, it prevents free movement and twists between cables



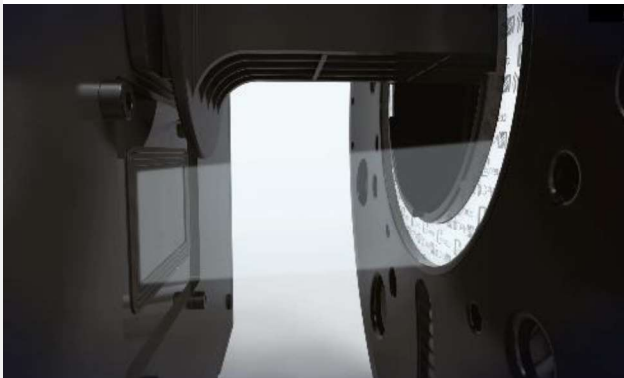
Built-in Camera

- The built-in camera makes it easy to check the output process on a computer or a mobile



Filament NFC System

- With the NFC system, it recognizes filament types and usage



Greater 7" Touch Screen

- 7" Full color touch screen with Korean and English UI



Chamber Structure of Aluminum Body

- To Improve output quality and reliability through minimizing internal vibration and output noise



C. Key Features – Style NEO (A22C / A31C)

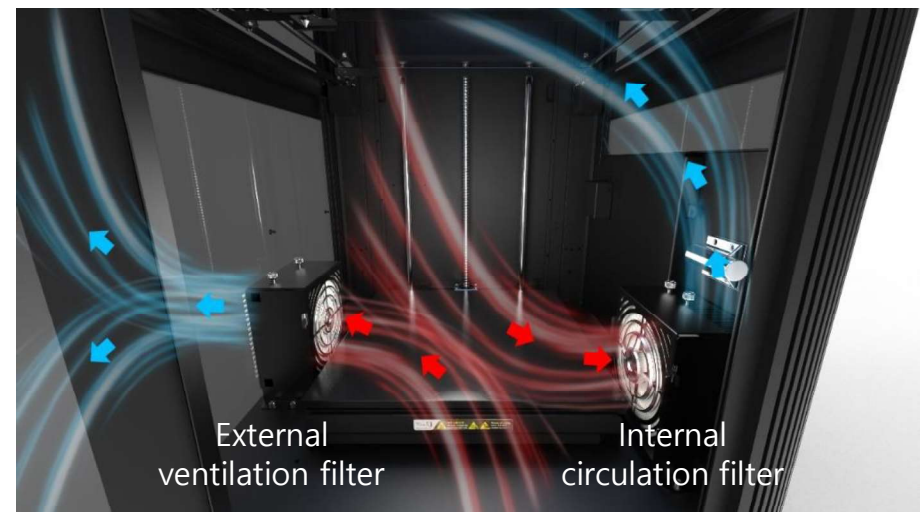
a. Build a safe 3D printing environment by applying dual filters

By triple clean filters (Hepa, Carbon, Purafil Catalyst Filter), it is possible to print more safely from dust, gas, and odors generated when printing from an FDM 3D printer. In the case of the A31C model, there are two powerful filters like the external ventilation filter and the internal circulation filter. Before discharging the pollutants generated from the inside to the outside, the polluted air is purified continuously by internal air circulation filter, which is more than 50% purified air. Especially, it is designed to be used safely for engineers and workers in industrial field. In addition, it is much safer because all products of Cubicon have acquired necessary certifications.

** The tests were done at our laboratory and the results may differ according to many factors like test methods, operating conditions, printing conditions and so on.*



[Style NEO - A22C]



[Style NEO – A31C]

b. Large workspace is enough to print big models at once.

- ✓ New line-up of Build Size enables more diverse sizes of 3D printing depending on user's purpose
- ✓ Scale up with larger printing. (324 to 882% larger than Style Plus-A15CR)

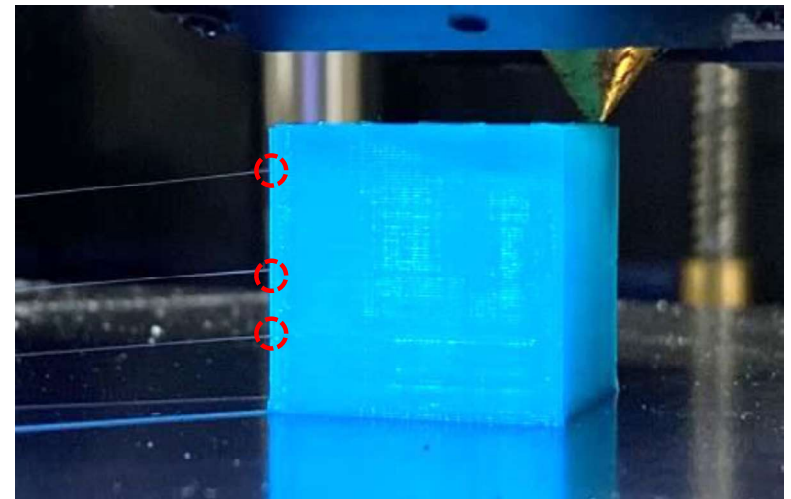
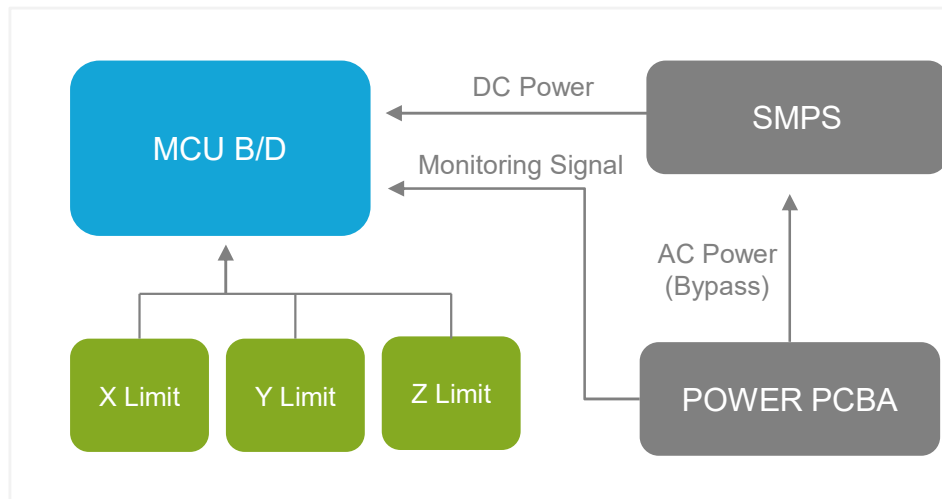


c. With the Power Outage Compensation System, it ensures uninterrupted printing

- ✓ 3D printing can be resumed even in spite of the blackout or power shutdown.
- ✓ With Power Outage Compensation System, it memorizes where printing left off and allows 3D printers to continue printing when the power is back on

** Power supply must be restored without delay or within at least 3 minutes*

** If a deformation according to the material type, the shape of printing output, printing environment, the case that the sculpture that already has been printed gets taken off from the bed or the case that contraction happens during the power outage or the standby period occurs, the sculpture may be damaged even if the operation is resumed.*



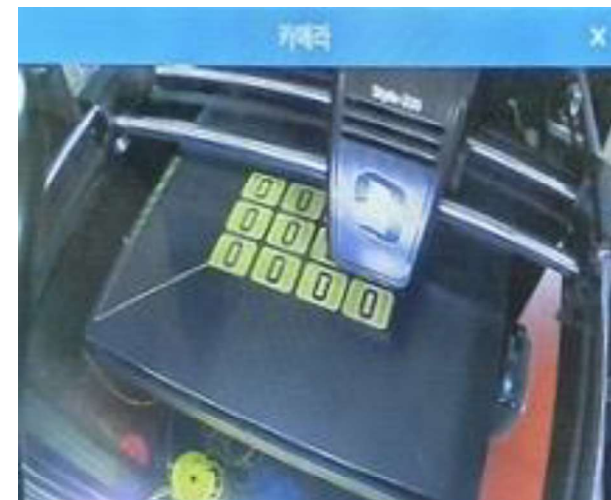
< Power Outage Compensation System & Re-printing Image >

d. Monitoring the printing status through the built-in camera & Controlling printer via network remote control

- ✓ With the internal camera, it allows monitoring the output process on PC or Mobile.
- ✓ With the network remote control system, it can control the printer when some troubles occur.

Currently, all controls of mobile and PC are available when 3D printer should be connected to the same Wifi or LAN network.

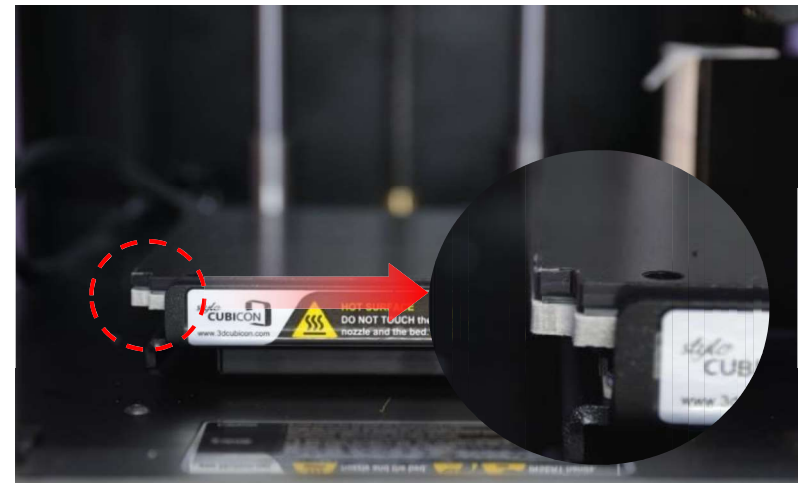
** Cloud control system will be applied when development is completed*



<Style NEO Built-in Camera & Real-time Monitoring>

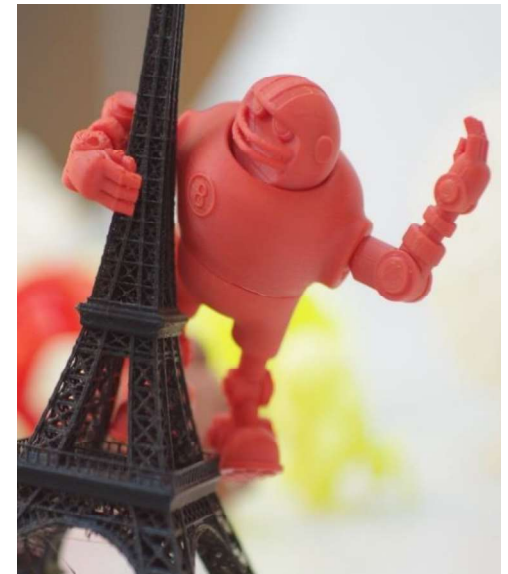
e. Auto Leveling Plus Function & Patented unique build plate

- ✓ Auto Leveling Plus function enables us to be free of manual adjustment of the bed level by hands and reduce printing failure due to the height errors between nozzle and build plate.
- ✓ Perfect Auto Leveling by Heated Bed with Industrial Load Cell (checking 16 points on the bed)
- ✓ No longer have the trouble of using Kapton tape or glue to the bed in order to paste printed object on the build plate.
- ✓ All printed objects are detached from the build plate easily when the temperature of build plate is below 40°C



f. Prints out various types of materials with one extruder

- ✓ It achieves the same quality even though it prints out various types of materials with one extruder



g. In-house designed module type extruder and nozzle kit

- ✓ It is easy to maintain with the replaceable extruder and exchangeable nozzles
- ✓ With the proprietary Stainless Nozzle Kit, it reinforces durability and reduce troubles

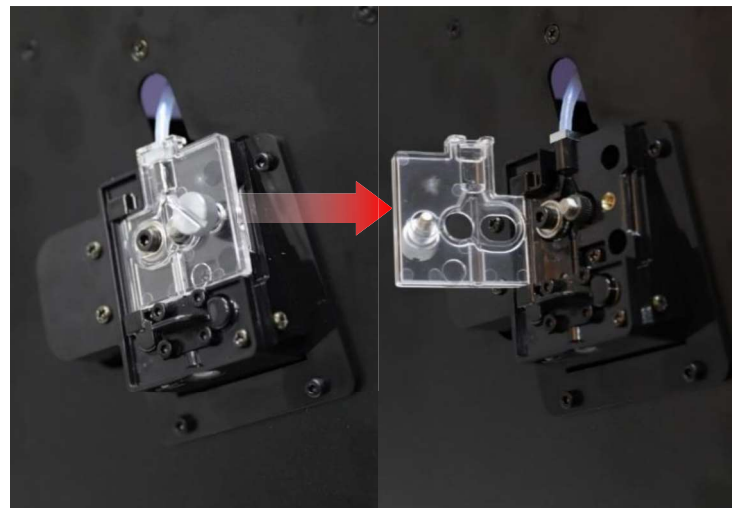


h. The automatic filament feeder with built-in two rollers

The automatic filament feeder with built-in two rollers allows a more stable filament supply to significantly improve ease of use. In addition, with the contactless optical sensor, it automatically stops the output when there is a supply problem due to filament exhaustion or breakage. Material detection can reduce printing time without wasting filaments dramatically by allowing the output to continue when reconnected.

** To maintain quality and minimize maintenance, it is recommended to use extruders according to filament type.*

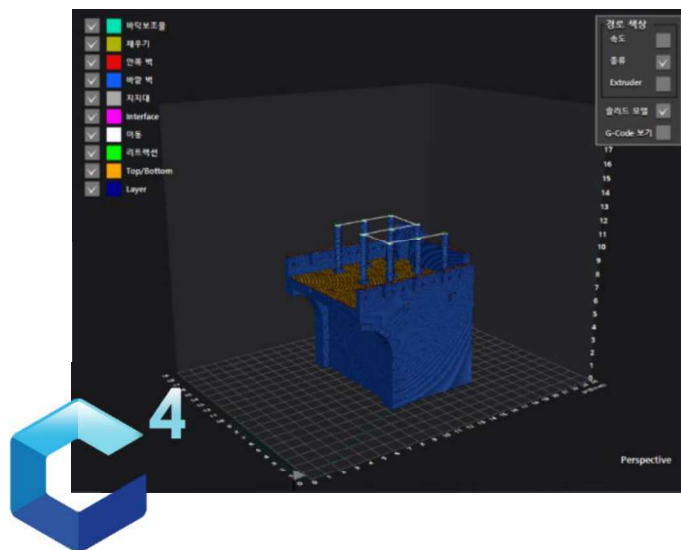
** Please turn filament detection function off when using TPU filaments or other transparent filaments*



i. Built in Slicing Software

- ✓ By providing 'Cubicreator', a slicing program optimized for Cubicon 3D printers, it provides a faster and more accurate printing experience through an interface that considers settings and user convenience.
- ✓ Style Plus and NEO series are connected to Cubicreator 4 through Wifi or LAN on several PCs freely.
- ✓ Style Plus and NEO series can be also connected and controlled by a mobile with Cubicontrol App

** All controls of mobile and PC is available when 3D printer should be connected to the same Wifi network.*

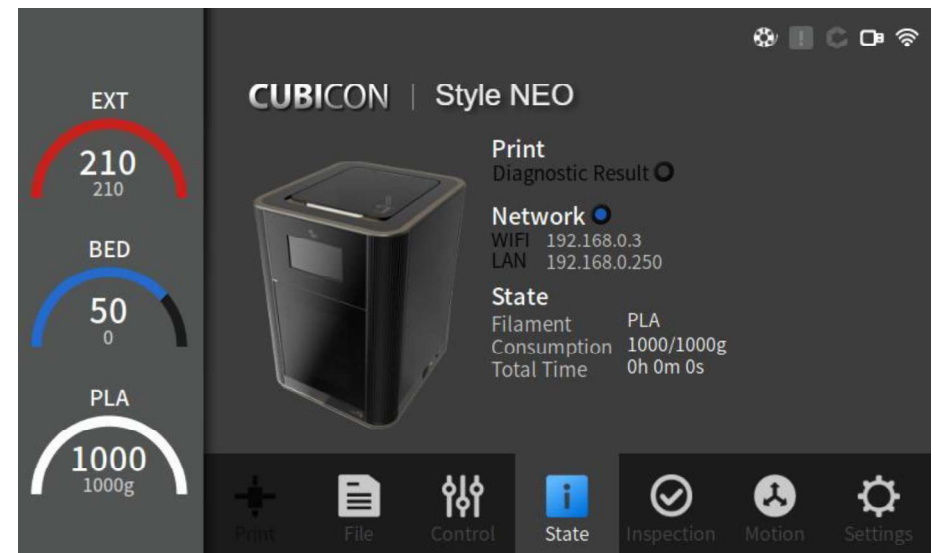


j. Convenient product operation with touch screen with English UI

The 7 inch full-color touchscreen with English UI allows even beginners to easily operate it and to check the various information (output status, equipment information, material information, printing information, etc.) simply



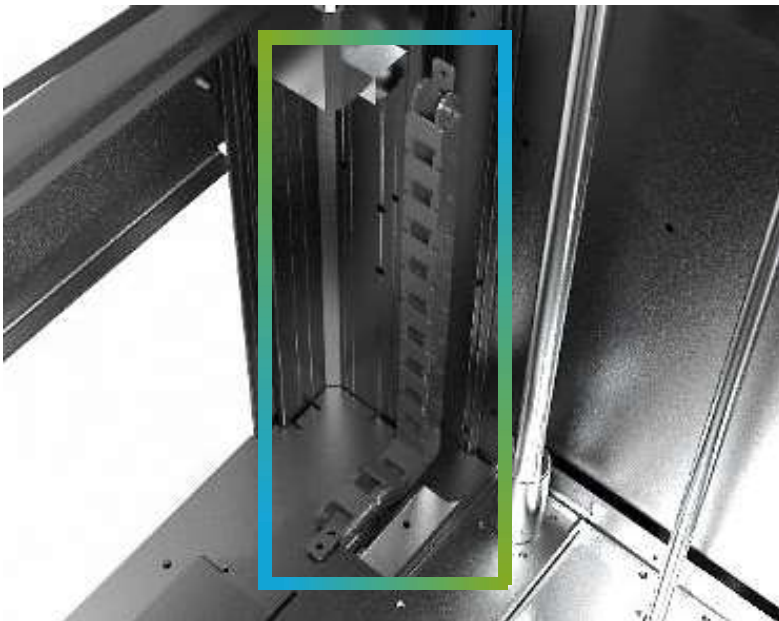
[Korean]



[English]

k. Stable Printing Circumstances with Quality Belt Idler & Cable-Carrier

- ✓ Industrial standard cable carrier is applied to Cubicon Style NEO to prevent the cable interference and twisting between cables.
- ✓ A belt idler, an essential element of a large 3D printer, is installed to maintain a constant belt tension for a long period of time, resulting in high quality



I. Reducing Filament Path Load by Mounting Spool holder with roller

In order to reduce the filament path load problem due to the expansion of the product size, the spool with roller is used. With the application of rollers, the spool can rotate more smoothly, and the noise during rotation is reduced.

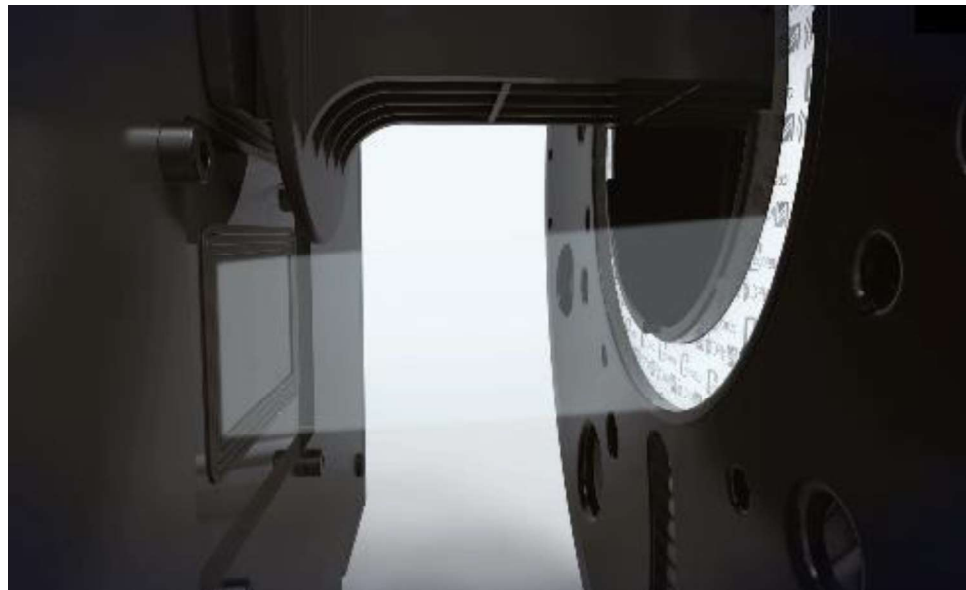


m. Applied the NFC system that automatically recognizes the filament type

- ✓ NFC system can show the type and usage of filaments easily. Depending on the filament type recognized, the necessary temperatures (nozzle, bed) are automatically set to prevent printing failure.
- ✓ NFC System can request confirmation when the filament from slicing file and actual filament are not matched.
- ✓ Any one can easily check the remaining filament on the front touchscreen and replace it on time.

* This function is available when using the genuine Cubicon filament that applied the NFC. tag

* Some of genuine Cubicon filaments are not applied to NFC Tag (TPU, PC filament will be applied soon)



n. Chamber structure with the aluminum frame improves output stability

With a fully enclosed chamber structure with the aluminum frame, Cubicon Style NEO improves output stability without external influences. A sealed structure that minimizes internal vibration and output noise allows users to use the 3D printer comfortably at home, in private offices, or in educational environments.

