

SPEEDIO U500Xd1

Universal Compact Machining Center



Universal Compact Machining Center performs universal indexing, encouraging process integration

Equipped with a newly developed tilting rotary table with a maximum jig area of 500 mm in diameter. Combination with a 28-tool magazine enables multi-face machining that breaks the conventional concept of #30 machines.

Cutting Out the Waste SPEEDIO





Basic specifications	
Max. spindle speed (min ⁻¹)	10,000 / 16,000 (optional)
Travels (X, Y, Z) (mm)	X500 Y400 Z300
Travels (A, C) (deg.)	A: 120~-30, C: 360
Tool storage capacity (pcs.)	14 / 21 / 28
Rapid traverse rate (X, Y, Z) (m/min)	X/Y/Z 50/50/56
Indexing speed (A, C) (min ⁻¹)	A/C 50/75
Required floor space (mm)	1,560 x 2,026
BT dual contact spindle	Optional
Coolant Through Spindle	Optional

Expands process flexibility to the fullest Provides a broader range of applications

SPEEDIO's high-speed performance and process integration through multi-face machining enhance productivity at customers' premises more than ever before. One-clamp operation achieves highly efficient and highly accurate machining in various industries.



Aircraft



EV inverter case Aluminum alloy Size: 400 x 280 x 150

> Steering rack housing Aluminum alloy Size: 350 x 170 x 120

Equipped with tilting rotary table with jig area of ø500 New structure for process integration with less space

Less space achieved although the machine is equipped with a high-speed and highly accurate tilting rotary table with ample jig area and a newly developed 28-tool magazine. One-clamp machining encourages process integration.

Tilting rotary table

Provides ample jig area of ø500 x H270 to meet multi-face machining for mediumsized workpieces.



Max. loading capacity 100kg

28-tool magazine (optional)

A newly developed compact drum type 28-tool magazine takes over fast tool change performance.



Max. tool weight 4kg*

* Parameter setting needs to be changed.

Machining area in Z/Y-axes directions

Ample jig/workpiece/tool area secured in the Z-axis direction. (Distance between table top and spindle nose end: 445 mm) The Y-axis travel range has been shifted from the center of the tilt axis to secure sufficient machining area when the tilt axis is at 90 degrees. (Y-axis travel when A-axis is at 90 degrees: 270 mm)



Compact design to save space

Despite a jig area of ø500 and even when a 28-tool magazine (optional) is mounted, the machine width is the same as when a 14-tool magazine is mounted.



Equipped with tilting rotary table that uses roller gear cam Roller gear cam mechanism is used for A and C axes, achieving high retention strength and backlash-free high-speed and highly accurate indexing. The rotary range of A-axis (tilt axis) is -30 deg. to 120 deg. suitable for a wide variety of machining.



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Untiring pursuit of high productivity Reduction in waste by optimizing control through machine/ controller integrated development

Pursuing fast acceleration and quick response through machine/controller integrated development and optimizing control with the new "CNC-D00" controller drive machine performance to the limit to provide high productivity.

Non-stop ATC

High-speed tool change has been achieved by faster and optimized spindle start/stop, Z-axis up/down, and magazine operation. Tools up to 3 kg can be changed in the



28-tool magazine						
Standard tool	Chip-Chip 1.3 s	Tool-Tool 0.7 s				
4 kg tool*	Chip-Chip 1.4 s	Tool-Tool 0.8 s				

* Parameter setting needs to be changed.

Simultaneous operation

Wasted time has been reduced by simultaneously performing tool change and positioning X/Y and A/C axes.



High acceleration/deceleration spindle

Using a low inertia spindle and high acceleration/deceleration spindle motor has achieved faster spindle start/stop.



Spindle start/stop time 0.15s or less *High-torque specifications

High-speed and high-acceleration Z axis

As the Z-axis moves frequently, the highest acceleration in its class has been achieved, contributing to reduction in cycle time together with the Z-axis rapid traverse rate of 56 m/min.



Z-axis acceleration Max. 2.2G Z-axis rapid traverse rate 56m/min



Highly rigid machine structure and highly efficient spindle motor enable a board range of machining

Reliable and trustworthy machine structure has been achieved.

Equipped with a highly efficient spindle motor that demonstrates sufficient torque from the low- to high-speed range. Achieves highly efficient machining in various industries, from automobile to general machinery, medical, and aircraft industries.

XYZ axes based on S500Xd1

The main unit of the machine and XYZ-drive system are based on the bestselling S500Xd1 model. Highly rigid structure and high-speed operation have been achieved.



Accessibility and workability

Accessibility has been enhanced so that operators can perform setup including workpiece change without any strain.





From front of machine to table 320mm

Highly efficient spindle motor

A spindle motor with high torque in the medium- and high-speed range is used to achieve high-speed and highly efficient machining of aluminum or iron.

10,000 min ⁻¹ (standard)	Max. torque 40Nr	m Max. output 18.9kW
16,000 min ⁻¹ (optional)	Max. torque 27Nr	m Max. output 15.4kW

7 MPa Coolant Through Spindle (CTS)

(optional)

The CTS option can be selected from 3 MPa or 7 MPa. With this option, the machine can operate to its fullest potential in high-speed drilling or peck drilling.

High inertia mode

High inertia mode is available for the tilting rotary table so that jigs for heavy or irregular workpieces can be mounted. * Parameter setting needs to be changed.

High clamp torque

Both A and C axes are provided with high clamp torque, demonstrating high retention strength even in high-load machining. Machining with more stringent cutting conditions is possible, improving production efficiency.





* These values are when the A-axis is at 0 degrees and X/Y axes are at their travel center. The above machining capability may not be achieved depending on conditions, including usage environment, tools in use, and coolant.



ADC	Cast iron	Carbon steel D25 x 0.1 (0.98 x 0.004)	
32 x 0.2 (1.26 x 0.008)	D28 x 0.15 (1.1 x 0.006)		
24 x 0.2 (0.94 x 0.008)	D22 x 0.15 (0.87 x 0.006)	D18 x 0.1 (0.71 x 0.004)	
M27 x 3.0 (1-8UNC)	M24 x 3.0 (7/8-9UNC)	M16 x 2.0 (5/8-11UNC)	
M22 x 2.5 (7/8-9UNC)	M18 x 2.5 (5/8-11UNC)	M14 x 2.0 (1/2-13UNC)	
960 (58.6)	74 (4.5)	54 (3.3)	
660 (40.3)	64 (3.9)	46 (2.8)	

* Data obtained from tests conducted by Brother.

Equipped with new "CNC-D00" controller Enhanced usability with 15-inch LCD touch panel

Intuitive operation is possible with new apps and vertical touch panel screen. Relevant functions are grouped according to purpose, such as setup and machining, leading to efficient operation. Production and operation states are visualized, allowing faster understanding. Waste-free operation is possible in setup, machining adjustment, production, and recovery process, leading to improved work efficiency and operating rate.

Home screen

Information required for production, such as workpiece counter and tool life, is collected on the home screen. Shortcut keys are provided for screens frequently used so you can open them by one touch.

	The second	
Remaining/Elapsed machining time	00:00:05	
Workpiece counter	Program Program Metricum material 10.000	Program
Support apps/ Shortcut keys	name matrix process (sectors process) A A A A A A A A A A A A A A A A A A A	Tool life
Screen keys	******************	

New user interface

Usability has been greatly improved by grouping relevant functions, creating new support apps that are intuitive with improved operability and visibility, providing useful accessories (calculator, notebook, file viewer etc.), and making operation on conventional screens possible on the touch panel.



List of support apps





Equipped with functions to easily perform

setup, such as an ATC tool app that enables all magazine tool settings to be performed on one screen, menu programming that enables you to create NC programs by following instructions



Machining adjustment a tt support

Equipped with functions to easily perform optimal machining adjustment to improve productivity, such as a machining parameter adjustment app that enables you to easily adjust parameters according to machining details and a machining load waveform display/saving function.



Waveform display app



Equipped with functions to improve the operating rate, such as real time tool monitoring to eliminate defects, displaying production performance, power consumption etc. as a graph, and PLC/network functions to meet peripheral equipment and automation requirements.



Production performance app



Equipped with functions to prevent failure or ensure quick recovery, such as maintenance time notice, displaying details when an alarm occurs, and guidance for recovery/check work.



Recovery support app



Equipped with functions that support connection with various peripheral equipment or automation

Network

Sending/receiving files or monitoring via FTP or HTTP. Compatible with OPC UA, a data exchange standard for industrial communication. In addition to the conventional field bus, data communication is possible via Industrial Ethernet, such as Ethernet/IP and PROFINET. Production/operation results screens on the machine can be viewed from a PC's browser.

Built-in PLC

Standard equipped with a PLC function. Program memory and object memory have been increased to enhance the capacity for peripheral equipment. In addition to ladder language, ST language and FBD language can also be used for built-in PLC programming

Built-in PLC screen



Earth-friendly machine with reliability that ensures high productivity

High reliability has been achieved by thorough evacuation and efficient handling of chips, and maintenance functions to prevent failures. Low power and air consumption greatly reduces CO₂ emissions, creating an earth-friendly plant environment.

Tank with cyclone filter and no consumables (special option for CTS)

Clean coolant is returned to the clean tank through another tank with a cyclone filter that removes fine chips. Coolant is kept clean this way to reduce the filter change frequency and extend the service life of the pump.



Low power consumption In addition to the low inertia spindle and highly efficient spindle motor, the machine is equipped with various energy saving functions to lower power consumption.

Power consumption app Current and past power consumption can be checked.



Spindle air blow Amount of air used is reduced by discharging three times the conventional volume of air only when required.

Alarm log

identify the cause.

Low air consumption

Air related functions have been reviewed and optimized to eliminate any waste,

leading to reduction in air consumption.

Reliability and maintenance functions for prevention of defects/failures and quick recovery

To maintain productivity at plants, the machine is equipped with many functions that can prevent possible defects in daily production sites, such as tool abrasion, omission of tool attachment, and re-machining of the same workpiece, and functions that assist with recovery in the case of machine failure or other problems.

ATC tool monitoring

The presence of a spindle tool is checked before and after tool change without using a sensor.



Machining load monitoring

Machining load applied to the spindle is monitored to issue an alarm when the load is not within the preset range.



Maintenance notice

Notifies operators of maintenance related issues in advance, such as greasing time.



Displays alarm log details to help





Prevention of chip problems

Improvement of chip evacuation performance

Roof-shape telescopic covers are used for the X/Y-axes to help chips flow smoothly. The shape for the chip flow path from the machining room to the tank was devised to increase the flow speed. Changing the shape under the Y-axis telescopic cover and increasing the flow rate have improved chip evacuation performance by almost two-fold





Thorough chip evacuation/removal prevents chip problems, improving reliability.

Tool washing, air-assisted type (optional)

Air-assisted high discharge pressure and discharge amount steadily remove chips attached to the spindle taper. This prevents the filter becoming clogged, ensuring stable washing performance. Expanding the pump capacity is not necessary, leading to high





Can be selected from 50L, 100L, 150L, or 200L according to the purpose. If you need a CTS spec. higher than 1.5 MPa, this will be custom-built.



Coolant Through Spindle (CTS) Can be selected from 3.0 MPa or 7.0 MPa. Pump and tank are not included.



Head coolant nozzle Coolant can reliably be applied to the machining section as the tool and nozzles are set in place.



Tool washing, air-assisted type High discharge pressure and flow rate efficiently remove chips attached to the holder. Equipped with a filter clog warning function.



LED lamps are used. No maintenance

Area sensor

in the automatic door

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Optical area sensors are used. Use area

sensors to prevent operators being caught

Switch panel (8 holes or 10 holes)

Various switches, such as automatic door

locations. The switch panel (8 holes) is also

available so that the position of the manual

open/close switches, are set in specific

pulse connector can be changed.

required. Can be tilted to improve visibility.



Automatic oil lubricator Regularly applies oil to all lubricating points on the tree axes.

Manual pulse generator

Master on circuit

required separately

A cable is provided for the manual pulse

generator, making setup easier, Equipped

with emergency stop and enable switches.



Rotary joint Six built-in ports are prepared to make jig mounting easier. 6 ports: Hydraulic (7 MPa), Pneumatic (1 MPa)



Chip shower pipes are located at the upper section inside the machine for more efficient flow and flexible shower nozzles can be directed to the side of the machine cover or sections where chips tend to accumulate.



Fixture shower valve unit Consists of jig washing valves and pipes to the ceiling of the machine. Pipes from the machine to the required location must be prepared by customers.



Helps clean the workpiece or chips inside the machine after machining.



Top cover Shutting the opening on the top prevents coolant or chips splashing outside of the machine A hole for the mist collector is provided

For further questions, please contact our sales representative

Leave 700 mm between machines as maintenance space.

the release operation of relocated machine.



Side door with transparent window Makes setup from the side easier. The machining room can be checked through the window. The manual pulse generator can also be operated.

When using oil-based coolant or when machining materials which can cause a fire (ex. magnesium, resin), customers are requested to take thorough safety measures against fire.

• When exporting our machine, the machine is deemed to be included in the "applicable listed items" controlled by the Foreign Exchange and Foreign Trade Law of Japan. When exporting the machine, please obtain

• When exporting our machine, as a machine conforming to Row 2 of Appended Table 1 of Export Trade Control Order, a relocation detection device is installed on the machine depending on the destination country.

After relocating the machine with the detection device, the machine is locked and any operation is temporarily impossible. Please inform your local distributor of machine relocation in advance and apply to perform

required permissions, including an export license, from the Ministry of Economy, Trade and Industry (METI) or Regional Bureaus of Economy, Trade and Industry before shipment. When re-selling or re-exporting

Please read the instruction manuals and safety manuals before using Brother products for your own safety.

The types of cutting material, cutting tools, coolant, or lubrication oil may have an influence on the machine's lifecycle.

the machine, you may need to obtain permissions from METI, and the government of the country where the machine is installed.



Side cover with transparent window External light is drawn in to make the inside of the machine brighter and improve visibility.



Work light (right side, left side) LED lamps are used to extend lamp life and save energy.



* The type of coolant may have a significant influence on the machine's lifecycle. It is recommended to use high-lubricity (emulsion type) coolant Do not use chemical solution type (synthetic type) coolant, as it may cause damage to the machine. * When using CTS (Coolant Through Spindle) function, do not use flammable coolant (ex. oil-based type).

 Signal light (1, 2, or 3 lamps) Automatic oil lubricator Automatic grease lubricator Automatic door with switch panel 10 holes Area sensor Switch panel (8 holes or 10 holes) Manual pulse generator with enable switch Tool breakage detector, touch type RS232C 25-pin connector at control box Spindle override Master on circuit Data protection switch, key type

Master on circuit and switch can be attached.

* A switch panel (8 holes or 10 holes) is

 Grip cover for 14/21/28-tool magazine Parts name sticker set Breaker handle cover Origin alignment mark

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Automatic grease lubricator Regularly applies grease to all lubricating points on the three axes. *Manual greasing is required for the standard specification model.



Automatic door with switch panel 10 holes A motor-driven door is used, achieving smooth operation.



Tool breakage detector, touch type A touch switch type tool breakage detector is available.



Spindle override Spindle speed can be changed without changing the program.



Power supply expansion 50A The capacity of the main breaker can be increased from 30A to 50A. The size of the relevant wiring increases accordingly. A terminal block for external equipment power supply is provided under the main breaker.

Work light (1 lamp for right side, 1 lamp for left side)

Connector and hook for manual pulse generator with enable switch



RS232C 25-pin connector RS232C 25-pin connector can be attached to the side of the control box.

- Outlet in control box (100V)
- Power supply expansion 50A
- Transformer box
- Specified color
- EXIO board assembly 1) EXIO board, input 32/output 32, additional #1 2) EXIO board, input 32/output 32, additional #2
- PLC programming software for D00
- Industrial network
- 1) CC-Link, master station 2) CC-Link, remote device station
- 3) PROFIBUS-DP, slave
- 4) DeviceNet slave
- 5) PROFINET slave
- 6) EtherNet/IP, slave
- Memory expansion 3 Gbytes

U500Xd1



Tool Dimensions



Maximum Spindle Speed	10000min ⁻¹ / 16000min ⁻¹					
Spindle Taper		7/24 No.30				
Tool Shank		MAS-BT				
Pull Stud		MAS-P30T-2				
Total for All Magazine Tools	M total 25kg	(14 Tools) / 35kg (21/28 Tools)			
Maximum tool specification settings	Heavy tool Standard tool					
Tool Limits	$\begin{array}{llllllllllllllllllllllllllllllllllll$	$\begin{array}{llllllllllllllllllllllllllllllllllll$	$\begin{array}{llllllllllllllllllllllllllllllllllll$			
Tool Balance Limit	60g•mm	50g•mm				
Tool Speed Limit	10000	16000min ⁻¹				

NC unit specifications

CNC-D00					
5 axes (X, Y, Z	5 axes (X, Y, Z, A, C)				
Positioning	5 axes (X, Y, Z, A, C)				
Interpolation	Linear: 4 axes (X, Y, Z, one additional axis)				
	Circular: 2 axes				
	Helical/Conical: 3 axes (X, Y, Z)				
0.001 mm, 0.0001 inch, 0.001 deg.					
±999999.999 mm, ±99999.9999 inch					
15-inch color LCD touch display					
	5 axes (X, Y, Z Positioning Interpolation 0.001 mm, 0.0 ±999999.999				

Memory capacity	500 Mbytes, 3 Gbytes (optional) (Total capacity of program and data bank)
External communication	USB memory interface, Ethernet, RS232C (optional)
No. of registrable programs	4,000 (Total capacity of program and data bank)
Program format	NC language, conversation (changed by parameter)
	Conversion from conversation program to NC language program available

* "Control axes" and "Simultaneously controlled axes" indicate the maximum number of axes, which will differ depending on the destination country and the machine specifications. * Ethernet is a registered trademark of Xerox Corporation in the United States

Machine specifications

Item			U500Xd1 / U500Xd1 RD '8		
CNC Unit			CNC-D00		
	X axis	mm(inch)	500 (19.7)		
	Y axis	mm(inch)	400 (15.7)		
Travala	Z axis mm(inch)		300 (11.8)		
Travels	A axis	deg.	120~-30		
	C axis	deg.	360		
	Distance between table top and spindle no	se end mm(inch)	145~445 (5.7~17.5)		
	Work area size	mm(inch)	ø260 (ø10.2)		
Table	Max. loading capacity(uniform load)	kg(lbs)	100 (220)		
	Max. table load inertia	kg·m ² (lb·inch ²)	1.8 (6151) [2.6 (8885) *9]		
-	Spindle speed	min ⁻¹	10,000min ⁻¹ specifications: 1~10,000 16,000min ⁻¹ specifications (Optional): 1~16,000		
	Speed during tapping	min-1	MAX. 6,000		
Spindle	Tapered hole		7/24 tapered No.30		
	BT dual contact spindle (BIG-PLUS)		Optional		
	Coolant Through Spindle (CTS)		Optional		
	Rapid traverse rate (XYZ-area)	m/min(inch/min)	50 x 50 x 56 (1,969 x 1,969 x 2,205)		
Feed rate	Cutting feed rate mm/min(inch/min)		X, Y, Z axis: 1~30,000 (0.04~1,181) *7		
	Indexing feedrate (A and C)	min ⁻¹	A axis: 50 C axis: 75 (60) *9		
	Tool shank type		MAS-BT30		
	Pull stud type *4		MAS-P30T-2		
	Tool storage capacity	pcs.	14/21/28		
ATC unit	Max. tool length mm(inch)		250 (9.8)		
	Max. tool diameter	mm(inch)	110 (4.3)		
	Max. tool weight *1 kg(lbs)		3.0 (6.6) [4.0 (8.8) *10] / tool, <total (55.1)="" (77.2)="" 14="" 21or="" 25="" 28="" 35="" for="" td="" tool="" tools,="" tools:<="" weight:=""></total>		
	Tool selection method	. ,	Random shortcut method		
	Tool To Tool	sec.	0.6 / 0.7 (14 or 21 tools / 28 tools)		
Tool change time *5	Chip To Chip	sec.	1.2 / 1.3 (14 or 21 tools / 28 tools)		
	Main spindle motor (10min/continuou	is) *2 kW	10,000min ⁻¹ specifications: 10.1/7.0, 16,000min ⁻¹ specifications (optional): 7.4/5.1		
Electric motor	Axis feed motor	kW	X,Y axis: 1.0 Z axis: 2.0 A axis: 0.9 C axis: 0.55		
	Power supply		AC200V±10%, 50/60Hz±1Hz		
D	Power capacity(continuous)	kVA	10,000min ⁻¹ specifications: 9.5, 16,000min ⁻¹ specifications (optional): 9.5		
Power source	Regular air pressure	MPa	0.4~0.6 (recommended value 0.5MPa) *6		
	Air supply Required flow	L/min	55		
	Height	mm(inch)	2,748 (108.2)		
Machining	Required floor space [with control unit door open] mm(inch)		1.560 x 2,026 [2,864] (61.4 x 79.8 [112.8])		
dimensions	Weight kg(lbs)		2,560 (5.644)		
	Accuracy of bidirectional axis positioning(ISO23)		X, Y, Z axis: 0.006~0.020 (0.00024~0.00079) A, C axis: 28 sec or less		
Accuracy *3	Repeatability of bidirectional axis positioning(ISO23	, , ,	X, Y, Z axis: Less than 0.004 (0.00016) A, C axis: 16 sec or less		
Standard accessories			Instruction Manual (DVD 1 set), leveling bolts (4 pcs.), leveling plate (4 pcs.)		

*3 Measured in compliance with ISO standards and Brother standards. Please contact your local distributor for details. *4 Brother specifications apply to the pull studs for CTS. *5 Measured in compliance with JIS B6336-9 and MAS011-1987. *6 Regular air pressure varies depending on the machine specifications, machining program details, or use of peripheral equipment. Set the pressure higher than the recommend value. *7 When using high accuracy mode B. *8 The machine needs to be equipped with a relocation detection device depending on the destination. Machines equipped with a relocation detection device come with "RD" at the end of the model name. *9 When using high inertia mode. Parameter setting needs to be changed. *10 Parameter setting needs to be changed. (Tool indexing time is changed.)

NC functions

Operation	Dry run	Monitoring	Machining load monitoring	Energy saving	Automatic power off		Menu programming
	Machine lock		ATC tool monitoring		Standby mode	to NC language	Local coordinate system
	Program restart		Overload prediction		Automatic coolant off		Expanded workpiece coordinate system
	Rapid traverse override		Waveform display / Waveform output to memory card		Automatic work light off		One-way positioning
	Cutting feed override		Heat expansion compensation system II (X, Y, and Z axes)		Chip shower off delay		Inverse time feed
	Background editing		Production performance display	Support apps	Adjust machine parameters		Programmable data input
	Screen shot		Tool life / Spare tool		ATC tool		Tool length compensation
	Operation level	Maintenance	Tap return function		Tool life		Cutter compensation
	External input signal key		Status log		Waveform display		Scaling
	Shortcut keys		Alarm log		Production performance		Mirror image
	<0ptional>		Operation log		Power consumption		External sub program call
	Spindle override		Maintenance notice		Recovery support		Macro
Programming	Absolute / Incremental		Motor insulation resistance measurement		Inspection		Operation in tape mode
	Inch / Metric		Tool washing filter with filter clogging detection		PLC		Multiple skip function
	Coordinate system setting		Battery-free encoder	Accessories	File viewer		<0ptional>
	Corner C / Corner R		Brake load test		Notebook		Submicron command *2
	Rotational transformation	Automatic /	Computer remote		Calculator		Interrupt type macro
	Synchronized tap	Network	OPC UA		Register shortcut		Rotary fixture offset
	Subprogram		Auto notification		Display off		Fixture coordinates setting
	Graphic display		Built-in PLC (LD/ST/FBD)				Involute interpolation
Measurement	Automatic workpiece measurement *1		<0ptional>			Functions limited	Operation program
	Tool length measurement		CC-Link, master station			to conversation	Schedule program
High speed and	Machining parameter adjustment		CC-Link, remote device station				Automatic tool selection
high accuracy	High-accuracy mode AIII		PROFIBUS-DP, slave				Automatic cutting condition setting
	High-accuracy mode BI (look-ahead 160 blocks)		DeviceNet, slave				Automatic tool length compensation setting
	Backlash compensation		PROFINET, slave				Automatic cutter compensation setting
	<optional></optional>		EtherNet/IP, slave				Automatic calculation of unknown number input
	High accuracy mode Bll						Machining order control
	(Look-ahead 1,000 blocks, smooth path offset)					*1 Measuring instr	ument needs to be prepared by users.

*2. When the submicron command is used, changing

to the conversation program is disabled.

Global Service Sites

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Figures in brackets () are the country codes.

Specifications may be subject to change without any notice.

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