## 2. CLEANING MODE AND AMOUNT OF INK PURGED

To prevent printing problems due to bubbles, dust, or ink clogging, print head cleaning is performed before the start of printing (when the cleaning flag is on), except in the following cases:

- Cleaning on arrival:  Performed when the scanning unit (printer cover) is closed.
- Manual cleaning / deep cleaning:  Performed manually.

<Cleaning mode list>

Black:  Pigment-based black

Color:  Dye-based black, cyan, magenta, yellow

| Condition | Details | Amount of ink used (g) (in the normal temperature/humidity environment) | Est. required time (sec.) (not including the time of opening the caps) |
|---|---|---|---|
| On arrival of the machine (All in sequence) | First to third cleaning after shipped from the plant[1]. | 0.57 (Black) 2.25 (Color) | 100 |
| Dot count cleaning (Black) | When the specified number of dots are printed since the previous Black cleaning. | 0.20 (Black) | 35 (Black) |
| Timer cleaning - 0[2] (Black only) | If 24 to 60 hours have elapsed since the previous Black cleaning till the start of the next printing. | 0.20 (Black) | 35 (Black) |
| Timer cleaning - 1 (Black only) | If 60 to 96 hours have elapsed since the previous Black cleaning till the start of the next printing. | | |
| Timer cleaning - 2 (Black only) | If 96 to 120 hours have elapsed since the previous Black cleaning till the start of the next printing. | | |
| Timer cleaning - 3[3] (Black/Color) | If 120 to 336 hours have elapsed since the previous Black/Color cleaning till the start of the next printing. | 0.20 (Black) 0.66 (Color) | 35 (Black) 40 (Color) |
| Timer cleaning - 4 (All in sequence) | If 336 to 504 hours have elapsed since the previous Black/Color cleaning till the start of the next printing. | 0.57 (Black) 1.06 (Color) | 80 |
| Timer cleaning - 5 (All in sequence) | If 504 to 720 hours have elapsed since the previous Black/Color cleaning till the start of the next printing. | | 80 |
| Timer cleaning - 6 (All in sequence) | If 720 to 1,080 hours have elapsed since the previous Black/Color cleaning till the start of the next printing. | | 80 |
| Timer cleaning - 7 (All in sequence) | If 1,080 to 2,160 hours have elapsed since the previous Black/Color cleaning till the start of the next printing. | 1.27 (Black) 1.06 (Color) | 85 |
| Timer cleaning - 8 (All in sequence) | If 2,160 to 4,320 hours have elapsed since the previous Black/Color cleaning till the start of the next printing. | 1.95 (Black) 1.06 (Color) | 90 |
| Timer cleaning - 9 (All in sequence) | If 4,320 to 8,640 hours have elapsed since the previous Black/Color cleaning till the start of the next printing. | 1.95 (Black) 1.06 (Color) | 90 |
| Timer cleaning - 10 (All in sequence) | If 8,640 or longer hours have elapsed since the previous Black/Color cleaning till the start of the next printing. | | 90 |
| At print head replacement (All in sequence) | When the print head is removed and installed. | 0.57 (Black) 2.25 (Color) | 100 |
| At ink tank replacement[4] (Black/Color/All in sequence) | When an ink tank is replaced (without the print head removal or re-installation) | 0.38 (Black) 1.06 (Color) | 80 (All in sequence) 40 (Black) 65 (Color) |
| Manual cleaning (Black/Color/All at the | - Via the operation panel (All at the same time only) - Via the MP driver (Selectable from Black, Color, | 0.20 (Black) 0.65 (Color) | 45 (All at the same time) |

| | | | |
|---|---|---|---|
| same time) | or All at the same time) | | 35 (Black) 40 (Color) |
| Deep cleaning (Black/Color/All at the same time) | Via the MP driver (Selectable from Black, Color, or All at the same time) | 1.95 (Black) 1.06 (Color) | 90 (All at the same time) 45 (Black) 65 (Color) |
| If the print head has not been capped before power-on (All in sequence) | | 0.38 (Black) 1.06 (Color) | 80 (All in sequence) |

*1: The counter for the on-arrival cleaning is checked at opening and closing of the scanning unit (the first opening and closing only), before start of printing, at dot-count cleaning (at paper ejection), and at manual cleaning, and the on-arrival cleaning is performed according to the counter value. After each on-arrival cleaning, the counter value is reduced by 1.

   When the counter value is 3, 2, or 1:  On-arrival cleaning is performed.

   When the counter value is 0:  On-arrival cleaning is not performed.

*2: When 24 to 60 hours have elapsed since the previous Black cleaning, timer cleaning - 0 is performed. However, this cleaning will be conducted up to 5 times from the printer installation, and no further timer cleaning - 0 will be performed.

*3: The period of time since the previous cleaning is counted by Black and Color separately. For this reason, the cleaning mode may differ according to Black or Color.

*4: When only the black ink tank is replaced, Black cleaning is performed. One of the color ink tanks is replaced, Color cleaning is performed. Both the black and color ink tanks are replaced, All-at-the-same-time cleaning is performed.

**<Part 2:  2. CLEANING MODE AND AMOUNT OF INK PURGED>**